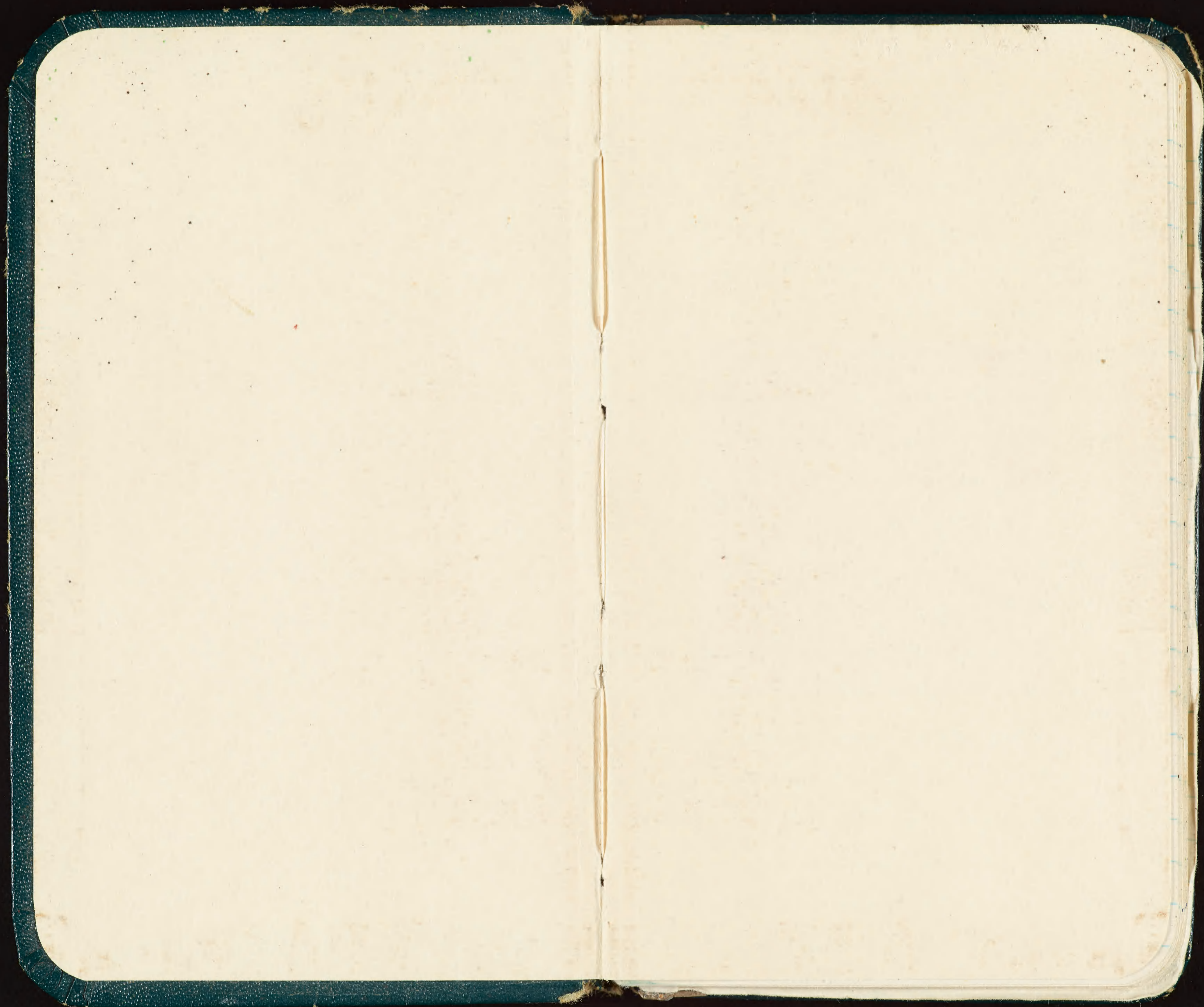
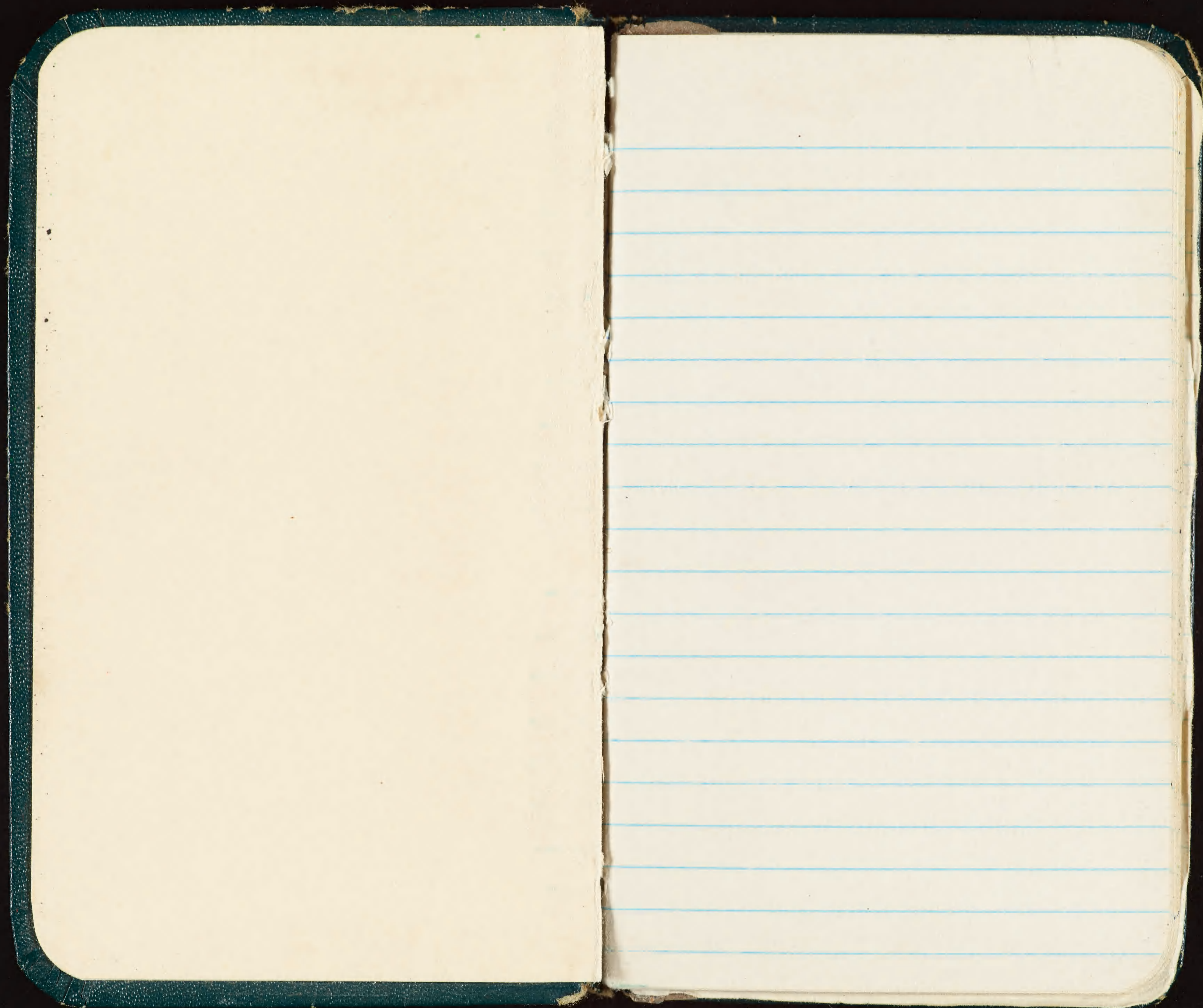


*Memoranda*

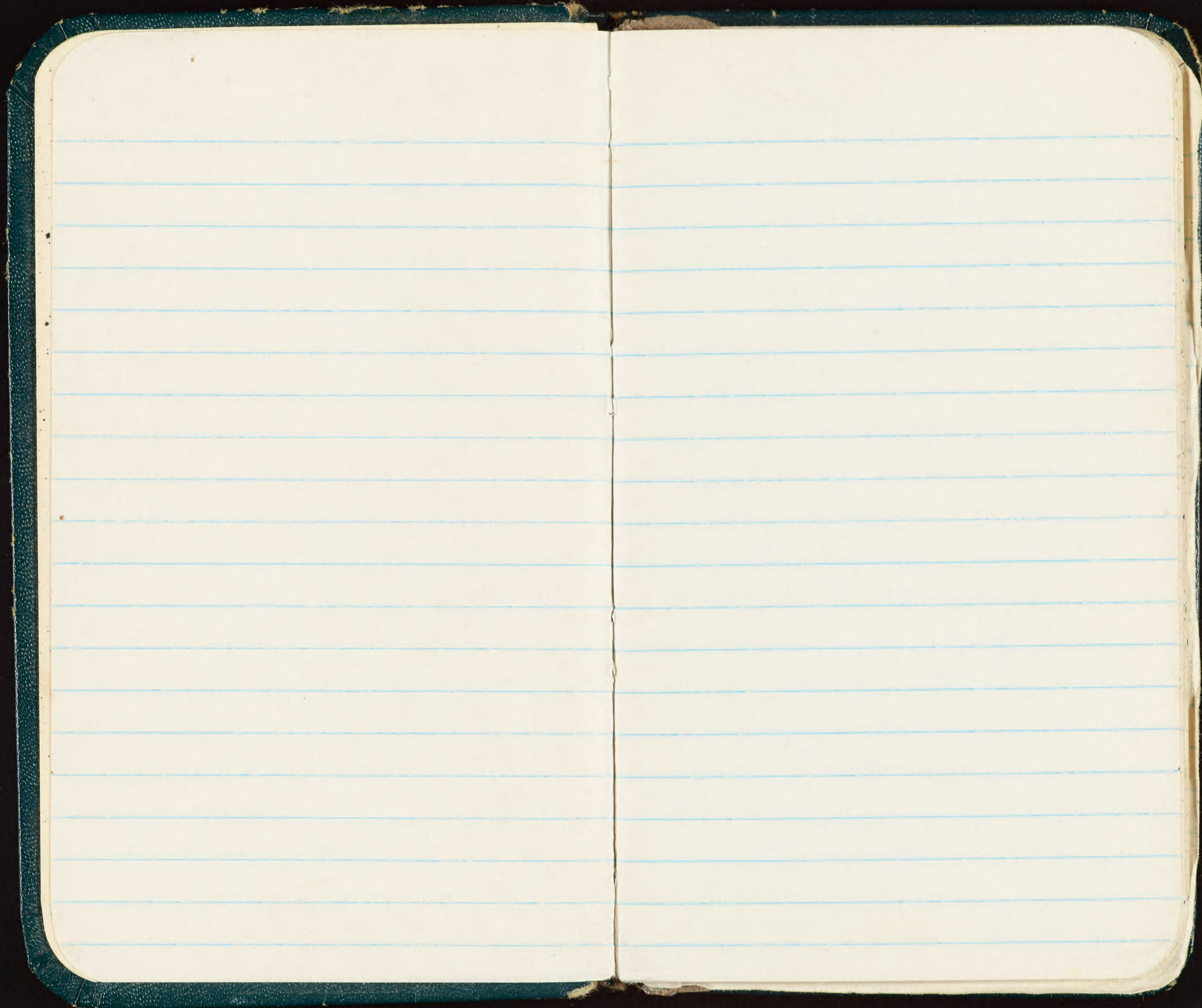




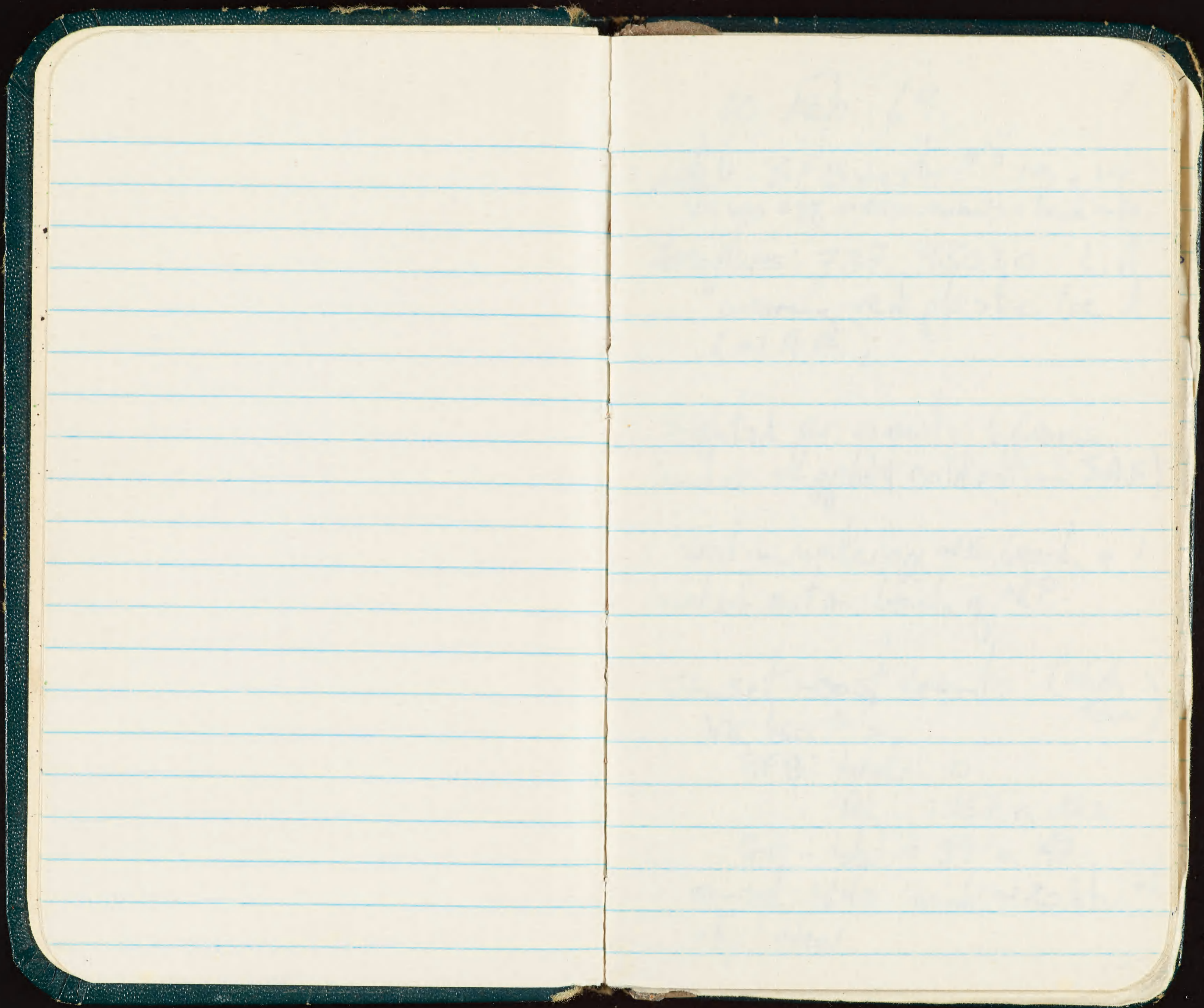














10 Feb 69

estab. BFB nests #'s 13 + 14  
VK has egg measurements + band info.

Recaptures: 737 - 95030 L. A.  
wearing red plastic band  
(WAF)

sighted pr. gowls (from  
under support cables in SAF)

1 seal in water off NE beach + 1  
hauled out on beach of N.P.

Sunset roost counts: (North  
Tower)  
VK has #'s

RFB: locals: 0

Ad : 157 vs. 182

GF: total: 39 vs. 47

sunset: 1840 wind ~ 20 kts. ✓  
sky: clear



10 Feb 69

seva samples on 20 RFB  
4 new bands 1 inter island  
recapture

11 Feb 69

~~BFB # 1 green NAF  
697-24523 ♂ nest # 11  
# 2 gr. NAF~~

BFB indiv pattern marking  
green NAF  
# band # sex nest #

1	697-24523	♂	11 ✓
2	667-35070	♂	8 ✓
3	737-45112	♀	3 ✓
4	667-35052	♀	11 ✓
5	697-70656	♂	10 ✓
6	697-70619	♀	9 ✓
7	737-98506	♀	7 ✓
8	737-95524	♀	5 ✓
9	697-70620	♂ ✓	no nest
10	667-35029	♂	13 ✓
11	<del>737-45135</del>	<del>♂</del>	<del>no nest</del>



✓ 11 Feb 69

nest check (for non-streamed returns)

species	nest #	band #
LA	841	667-39074 ✓✓
	588	697-90939 ✓
	589	737-96647 ✓✓
	608	<del>737-94293</del>
BFA	68	737-47234 ✓✓
	184	737-45262 ✓✓
	76	737-94872 ✓✓
	86	737-90169 ✓✓
	169	737-91604 ✓✓

✓ 10 Feb 69

green SAF BFB indiv. patterns

#	band #	sex	nest #
1	667-39210	♀	2 ✓
2	697-24511	♂	6 ✓
3	737-45165	♀	1 ✓
4	737-45126	♀	4 ✓
5	697-24529	♀	no nest
6	737-45135 ✓	♂	no nest
7	667-39211 ✓	♀	no nest
8	667-39213 ✓	♀	no nest
9	667-39202 ✓	♂	no nest } pr.
10	597-83298	♀	12 ✓
11	737-45120 ✓	♂	no nest
12	737-45101	♀	- 15 ✓
13	697-70951	♂	- 2 ✓
14	667-35062	♂	1 ✓
15	737-45171	♀	no nest 16
2	737-45124	♂	4 ✓
3	737-98532 ✓	♀	no nest



green

11 Feb 69

BFB NAF

# band # sex nest #

11

12

13

14

15

16

Sunset count (Central Roost)

RFB central Locals 0

flying

portion

Adults 98 (TD) 118 (VK)

west

Locals

0

flying

portion

Adults 97 (TD) 122 (VK)

sunset - 1841

wind ~ 12 kts

sky ~ 30% cloudy

11 Feb 69

Bonin Is. Petrel: NAF

51.0 x 37.5 egg in burrow

— 28 band #

54.0 x 37.8 — 29 band # RWo

Albatross (L.) roosting RWo

737-98574 ✓

697-84912 ✓

98292 ✓

22236 ✓  
90644 ✓

95196 ✓

95746 ✓

94502 ✓

93665 ✓

92021 ✓

95652 ✓

99297 ✓

97110 ✓

91301 ✓

95586 ✓

96134 ✓

98902 ✓

94325 ✓

47156 ✓



✓  
✓  
91164✓  
96421✓  
97032✓  
737-45553✓  
-91145✓  
97937✓  
95627✓  
99343✓  
97352✓  
95743✓  
98243✓  
11052✓  
95487✓  
93337✓  
93557✓  
95474✓  
90879✓  
97151✓  
90884✓  
97161✓  
98561✓  
90935✓  
95465✓  
45934✓  
95183✓  
98788✓  
45938✓  
47114✓  
45942✓  
97323✓  
92239✓  
90092✓  
97196✓  
98564✓  
93886✓

667-39751✓

767-~~52496~~  
95800

587-85771✓  
-85766✓  
-91592 x jfm69  
-85806✓

597-46632✓  
-52496✓

757 73397✓  
70785✓

✓  
11 Feb 69

New bands roosting LA Rwo  
587-91741 - 91800



✓ 11 Feb 69  
BFA RW-roosting

767-94668✓ 597 84132✓

737 97488✓

SWB roosting BFA

737-97483✓ 767-77961✓

-45574✓ -78032✓

-97284✓ -01183✓

-98522✓

-98636✓

-98553✓

-97489✓

-97487✓

-98631✓

-98626✓

-91166✓

98555✓

98625✓

97476✓

97475✓

697 72084✓

12 Feb 69  
Shore bird count (7:45 Am)

NWB sanderling 2 3

turnstone 6

g. plover 2 8:00

NP turnst. 2

NEB turnst. 7

sanderl. 1 8:25

SEB tst. 6

sandl. 1

tattler 2 8:50

SP tst. 6

sandl. 2 8:55

SWB tst. 5

sandl. 2

plover 1 9:15

Hgts tst. 3

plover 1

SAP tst. 4

plav. 3 9:40



12 Feb

shorebird ct. (cont.)

NAF ts/s. 4  
plover 8  
curlew 1

weather - wind ~ 8-9 kts. NW  
sky ~ 35% cloudy

BF B egg meas. <sup>nest #15</sup> SAF egg #1  
✓ 65.4 x 46.4

✓ Benin J. petrel SAF  
egg nest. 48.4 x 37.0

9 burrows w/ eggs, excavated  
birds banded (1 return)  
eggs measured

12 Feb 69 ✓

LA Albatross nest check RWO

band # nest #

737-45772 ✓ -677

767 46661 ✓ -408

697 90506 ✓ -406

~~737-47353~~ 411

737-93082 ✓ -416

~~737-94167~~ 423

737 45644 ✓ -428

737 92238 ✓ -430

new band on BFA hook taken from <sup>neck</sup>  
767-51094 RWO prev. banded

✓ Recoveries - RWO

LA 587-91542 (streamered)

" 737-98285

737 93893 (lg. damage in ft. of  
radar reflector)



12 Feb 69

# BFB pattern markings

## SAF (brown)

#	band #	sex	nest #
4	737 45132	♂	6
5	" 45134	♂	12 2nd
6	" 45178	♂	NN
7	697 70649	♂	NN
8	" 70953	♀	"
9	767 50901	♀	"
10			
11			
12			
13			
14			

(black)

1  
2  
3  
4  
5  
6  
7  
8

## NAF (green)

11	667 35051	♂	NN
12	737 92944	♂	8
13	667 35069	♂	NN } pr
14	" 35055	♀	" }

## (brown)

1	667 35037	♂	NN
2	697 70919	♂	" 10
3	737 98543	♂	NN } pr
4	737 98533	♂	" }
5	667 35060	♂	NN
6	737 92451	♀	98
7	697 70653	♂	NN }
8	737 99620	♀	" }
9	737 98503	♂	NN
10	" 45199	♂	"
11	" 99604	♂	"
12	767 50828	♀	" }
13	667 35047	♀	" }
14	667 35043	♂	" }

## (black)

1	737 98529	♀	NN }
2	" 92947	♂	" }
3	737 92945	♂	7
4	" 99592	♂	5
5	667 35059	♂	NN } pr
6	737 98511	♀	" }
7	697 24501	♂	NN } pr
8	697 24514	♀	" }
9	737 45170	♂	NN } pr
10	697 70652	♀	" }
11	667 35068	♂	NN } pr
12	697 24512	♀	" }
13	697 70657	♂	NN }
14	667 35030	♀	" }



12 Feb

✓ NAF (cont.)

blu hairy bar green spots

1	697	90196	♂	NN	}
2	597	83277	♀	"	
3	697	24516	♂	NN	}
4	737	45115	♀	NN	
5	667	35044	♂?		}
6	737	98508	♀	"	
7	"	45181	♂	"	}
8	"	95842	♂	"	
9	697	70623	♀	"	}
10	737	45174	♂	"	
11	697	70634	♀	"	w/ 13 black
12	737	98585	♀	"	
13	697	24502	♂	"	
14	737	45118	♀	"	

6K hairy br. spots

1.	737	98534	♂	NN	}
2	"	98518	♀	"	
3	697	70660	♂	"	}
4	"	24522	♀	"	
5	737	98538	♀	"	}
6	697	24520	♂	"	
7	697	70618	♂	"	}
8	737	92450	♂	"	

13 Feb 69

12:45 lagoon ~ 65° F

air ~ 68° F

wind ~ 10 kts, ENE <sup>more, to 12-15 in PM</sup>

sky ~ 95% cloudy  
clear by 3 PM.

BFB

SAF (Red ~~green~~ spots) repainted as red

pk	10	737	45125	♂	NN	✓	50%
pk	11	737	45129	♂	"	✓	

Bonin I.P. SAF ✓

egg. 47.3 x 37.8 943-88961 (new band)

BFB nest #12 SAF

2<sup>nd</sup> egg 64.4 x 45.7 ✓



✓ unused bands 66-70 lost ✓  
 PIT study area

#	egg meas.	new band #'s
1	48.7 x 36.9	943-889 62 ✓✓
2	51.7 x 37.6	63 ✓✓
3	50.5 x 38.2	64 ✓✓
4	47.4 x 38.0	65 ✓✓
X	no egg (no # given)	71 ✓✓
5	49.1 x 38.7	72 ✓✓
6	50.6 x 38.2	73 ✓✓
X	50.7 x 37.5 egg broken	70 ✓✓

✓ RFB (N. roost along path)  
 egg meas. 61.4 x 40.4

13 Feb 69 ✓

relative burrow length & depth surroundings

~ 12"	8"	open
str. ~ 4'	15"	clump of grass open otherwise
str. 3 ft. rth 18"	18"	vine + sticks
3 1/2"	13"	sticks
str. ~ 4'	13-14"	clump grass, vine thick
str. 24" at L 30"	12"	sticks, vine, clump grass
curving rt. 32"	10"	vine, sticks

LA Nest check  
 new band #  
 new nest 587-91801 ✓✓  
 return ✓✓ 587-65019 (streamered) 459  
 ✓✓ 737 93067 " 462

Returns  
 BFA  
 237 47147 nest # 416 ✓✓  
 697-90056 316 ✓✓  
 737-97729 309 ✓✓



✓ 13 Feb 69

SAF color scheme (BFB)  
~~667-39223~~ <sup>now blk spt. 9</sup> → black 9 w w  
~~737-98582~~ <sup>now blk spt 10</sup> ♀ black 10 "  
~~597-83265~~ <sup>now blk spt. 1</sup> ♀ "  
~~737-45127~~ <sup>now blk spt 2</sup> ♀ "  
 14 ok 597 83415 ♂ "

12+13 changed to blk spt. (wed center)

BIPetal SAF  
 return 793 20459 ✓ Egg meas.  
 unbanded bird 44.7 x 36.9  
 54.2 x 38.3

✓ WAF color Schemes (BFB)

blk bar brow spot

9	737	98586	♀	WN
10	667	39216	♀	" } pr
11	737	98171	♂	
12	667	39207	♀	14
13	697	70645	♂?	14
14	667	35063	♂	NN

3 (egg #1)

13 Feb ✓

✓ blk bar - blk spt.

1	667	35041	♂	NN(9)
2	667	35032	♀	"
3	737	45121	♀	"
4	697	24513	♀	" } pr
5	737	98231	♂	"
6	737	45186	♀	" } pr
7	697	70921	♂	"
8	667	39204	♂	"
9	697	90199	♀	"



✓ 14 Feb 69

B.I.P. study

nest #	band #	egg measurement
7	943-88992 //	50.5 x 38.1 ✓
8	93 //	47.9 x 37.1 ✓
9	94 //	48.1 x 38.7 ✓
10	ret. 903-03674 ✓	50.6 x 35.9 ✓
11	95 //	52.4 x 37.8 ✓
no #	96+97 // BP	no egg
no #	98 // BP	no egg
12	99 //	49.7 x 37.8 ✓
13	00 //	51.5 x 38.4 ✓

L.A. recovery SEB 737-91620 ✓✓

RFB egg meas. (study area)  
Central Roost

band #	egg meas.
1	64.5 x 42.4 ✓
2	63.7 x 44.2 ✓
3	64.2 x 46.2 ✓
4	65.4 x 40.0 ✓
5	64.1 x 39.9 ✓

737-91592 ✓✓

✓ 14 Feb

length, depth, configuration, + surroundings

~5'	16"	str.	denses vine openings + on top
3 1/2'	10"	curve to rt. about 1/2 way	mouth open
18"	8"	str.	open
24"	9"	str.	dead grass + sticks
24"	10"	curve rt.	clump grass + vine

28"	14"	str.	vine (moderate)
32"	14"	str.	vine, clump grass near

central roost  
old red foot tags 38, 87, 28, 15, 13,  
82, 81, 7 no new nest nearby  
as of 14 Feb.



✓ 14 Feb 69

RFB egg measure.

66.0 x 40.9 /

60.2 x 41.4 /

60.8 x 41.6 /

59.6 x 43.2 /

58.3 x 40.5 /

Central Roost  
west portion

BFB nest check

# pattern loc.  
16 W. spt. #1 SAF ✓  
(#8 unattended) 1

Sunset roost count (Central Roost)

Central portion from radar reflector tower  
RFB subadults 0

adults 78

West portion  
subadults 0

adults 41

sunset 18:44

sky 8-10% cloudy

wind ~ 11 kts E

flying 15

✓ 14 Feb 69

BIP returns study area 2

903-03181 ~~BP~~ BP

03444 on egg

03323 BP

15121 "

15107 "

new band used

943-8 42 BP

43 "

44 "

45 "

46 "

47 "

48 "

49 "

50 "

51 "

2 fairy terns 10:05 PM seen in  
from SEB

Grey-backs heard from sunset



✓ 14 Feb

SERA RFB north roost

2 737-91670

4 737 44793 died

Mr Varn's notes

767-45222 no sample

✓ 15 Feb.

BIP in SAA (inside fence)

943-880

1) 51.5 x 37.8 #81

2) 52.1 x 39.3 #82

3) 51.0 x 38.7 #83

4) 47.0 x 38.5 903-03444 ✓

5) 50.0 x 38.0 #84

6) 49.6 x 37.8 903-13348 ✓

7) 50.4 x 38.3 #85

8) 52.3 x 37.8 #86

9) 50.8 x 38.3 #87

10) 57.9 x 39.0 #88

BFB nest #16

1st ♂ 66 sp. 6

2nd 66.9 x 46.8

nest #14

♂ 61K low 66 sp. 11

nest #13 2nd egg



✓ 15 Feb

nest #7  
♀ wing broken egg egg #1 broken

BIP study area ~~VAT~~  
~~new bands used~~

✓ 16 Feb 69

BIP

new bands 943-88089-

#11 903 03361 52.1 x 38.0 edge of sand.

12 #90 46.9 x 37.3 open sand

no number #89 broken egg

no #91 egg broken

13 92 53.0 x 38.0

14 93 49.1 x 38.4 broken egg to present

15 94 49.6 x 36.0

16 943-88056 56.5 x 36.1

17 95 50.2 x 36.8 sticks, open

18 96 48.3 x 37.7

BIP 2100 returns + repeats SAR

903-03185 943-88045

11 - 03835 on egg (broken)



✓ 17 Feb 69

old RFB nest tags (# 74, 91, 49  
90) (near 344)

RFB nest study area Central Roost  
nest # band #

#5 737 91392 // (streamed)

#6 767-45242 // egg meas.  
69.5 x 43.5

#2 737-98469 ✓

SWB Albatross nest check (returns  
streamed)

✓ B265- 737-9<sup>37</sup>51 (restreamed)

✓ B196 - new band (streamed)  
767-51582 ✓

✓ B271 737-94810 ✓

✓ B274 737 45743 ✓

~~L-369 687-91515~~

~~L-379 697 22338~~

17 Feb 69  
SWB albatross nest check ✓

~~L-376 737 91531~~

nest # band # birds streamed

✓ B121 737-45254 ✓

✓ B- 7 ✓

✓ 8  
8  
7992  
3703  
4104  
9536  
6259  
61 (repeat)  
38 (SEB) ✓

4. AF study area

new bands 943-87948-52  
#48 ♀

recaptures + repeats

1753-32615 -

1943-88914 -

1943-87957 /



6250

4536

4104

3703

7992

8835



✓ 17 Feb 69

old RFB nest tags (# 74, 91, 49  
90) (new 3+4)

RFB nest study area Central Roost  
nest # band #  
69, 5, 14

#5 737 91392 (streamed)

#6 767-45242 egg meas.  
69.5 x 43.5

#2 737-98469 ✓

SWB Albatross nest check (returns  
streamed)

✓ B265- 737-9<sup>37</sup>51 (restreamed)

✓ B196 - new band (streamed)  
767-51582 ✓

✓ B271 737-94810 ✓

✓ B271 737 45743 ✓

~~L-369 687-91515~~

~~L-379 697 22338~~

17 Feb 69  
SWB albatross nest check ✓

~~L-376 737 91531~~

nest # band # birds streamed

✓ B121 737-45254 ✓

✓ B297 69722967 ✓

✓ B ~~307~~ 767-51061 (reput)  
305

✓ B252 737+7138 (SEB) ✓

BIP WAF study area

new bands 943-87948-52  
#48 ♀

recaptures + repeats

1753-32615 -

1943-88914 -

1943-87957 ✓



✓ 17 Feb

RFB Sera Central roost

28 ~~737 90634~~

~~Vern has data~~

Albatross Roost check new bands

✓ BFT 587-91803 → 833 31

✓ Runway 834 → 891 88

✓ Runway S 892 → 900 91

" 587 91901 → 923 23  
(19 1 leg, 1 ft.)

Sooty terns heard calling SEB  
12:45 AM

18 Feb 69 ✓

RFB - nest study area

nest #	band #	egg measurement
7	737-45426 //	66.3 x 48.5 /
8		59.6 x 42.3 /
9		61.2 x 42.1 /
10		63.2 x 41.5 /
2	737 95941 //	

old RFB nest eggs #40

new nest #3 egg broken  
(old #50 same hatch)

✓ recovery 767-51672 (sea sampled) on  
ground nearby

BIP SAF land check  
943-87961  
918 B

new band

old band 943-88936

"

88961

"

✓ 903-03450

E

F

G



18 Feb

BIP

NAF Study area

nest # band #  
12 943-87965 (new)

15 88972 (old)

16 773 18440 (old) rebanded w/ 67

19 69 new

13 egg broken

15 943-87902

18 17? egg broken

new nests NAF

nest #	band #	egg meas.
120	73	52.8 x 37.7
121	74	44.5 x 36.1
124	77	51.2 x 38.7

nest # BFB nest check (new nests)  
17 Wspt. 14 1st egg since 1315  
Wspt. 13

18 Feb

BIP SA2

new bands 943-87978-82

97 deformed ft. leg

903-03181

943 87928

913-88127 ♀ w/ 28

903 15146

903-15461

893-21180 rebanded w/ 88124

943-88071

903-03175

753-33991

NAF

nest # 1 egg broken (10:30 Pm.)



✓ 19 Feb 69

Shorebird count

N<sup>W</sup>B - ~~Turnstone~~ Turnstone 8 7:45

S 0

GP 0

N Pt. 0 7:58

N<sup>E</sup>B ~~Turnstone~~ Turnstone 2 8:03

S 5

GP 0 8:25

RW turnstone 46  
GP 46 8:52

Tropic bird count 1400  
from roof of barracks — 0

19 Feb 69 ✓  
Albatross nest check  
RWB new band

B 326 667-39098 ✓ L 586 587-91926 ✓

B 68 737-47234 ✓

L 74 737-47242 //

NEB

B ~~336~~ 336 no band streamered

L 850 587 91526 streamered? ✓

Sunset roost count (North R.)  
sunset (horizon obscured) 18:50  
wind E 18-22 kts  
sky 50% cloudy

RFB locals 0  
adults 63  
flying 14

GF imm. 7  
adults 2+3  
flying 3

{ 46



✓ 19 Feb 69

BIP study area  
new bands used

943-88163 - 72

943-88200 - ~~216~~ 218

returns & repeats

943-88962

" - 88906

✓ 753-33367

943-87590

✓ 753-32888 → reband w/ 943-88204

✓ 903 03027

Roosting Albatross

new bands used

587-91927-92000

Antenna fields 927 → 000

767-51585 → 594 600

✓ 20 Feb 69

RFR nest check

old nest #

53

egg meas

59.6 x 41.0 ✓

66.7 x 41.0 ✓

BIP SAF

tion

band #

87962

✓ 87961

87963

88931

88936

unbanded

03450

SA2 8:00-9:30 PM

943-88216 → 228

\* ✓ 793-20539

✓ " 21423

✓ 943-87932

✓ 753-33486 reband w/ 278

903-15103

✓ 743-40547

✓ 903-13167

✓ " 13165



2  
25  
25  

---

125  
50  

---

175

24  
21  
24  

---

48

6  
28  

---

18



✓ 19 Feb 69

BIP study area  
new bands used

943-88163 - 72

943-88200 - ~~216~~ 218

returns & repeats

943-88962

" - 88906

✓ 753-33367 → reband w/ 165

943-87590

✓ 753-32888 → reband w/ 943-88204

✓ 903 03027

Roosting Albatross

new bands used

587-91927 - 92000

Antenna fields 927 → 000

767-51585 → 594 600

✓ 20 Feb 69

RFB nest check

new nest #	old nest #	egg meas
11	53	59.6 x 41.0 ✓

12		66.7 x 41.0 ✓
----	--	---------------

BIP SAF

nest designation	band #
A	87962
B	87961
C	87963
D	88931
E	88936
F	unbanded
G	903-03450

BIP SA2 8:00 - 9:30 PM

new bands used 943-88216 → 228

✓ 903-03181 repeat ✓ 793-20539 -  
✓ 943-88077 ✓ " 21423 -  
✓ 87979

✓ 903-15301

✓ 793-20547

✓ 903-13167

✓ " 13165

✓ 943-87932

✓ 753-33486 reband w/ 278

903-15103



✓ 21 Feb 69

# Albatross nest check

✓ BFT

RW. L 434-737 92773 //

B 313 - 737. 45569 //

✓ BIP SAR

new bands used 943-88301-310 //

nest #	band #
1	301 -
2	abandoned?
3	903-03844 ✓
4	abandoned
5	abandoned
6	abandoned
7	abandoned
8	303 -
9	abandoned?
10	302 ✓
11	304 ✓
12	88090 / same
13	306 -
14	305 -
15	abandoned
16	abandoned
17	abandoned
18	abandoned

21 Feb

new  
nest #

band #

egg meas.

19

307

47.5 x 38.1 ✓

20

308

49.4 x 39.0 ✓

— 773-8477 rebanded w/ 309 (no egg) ✓

310

(no egg)

— 903-13391 (no egg) ✓

✓ BFB

new nest #

egg meas.

W. spl. 8 ♂

SAF 18

65.4 x 46.1 ✓

697-70953 ✓

W. spl 70 →

BIP WAF

new bands used 943-88311-214 ✓

returns + repeats

311 partial BP.

943-88986

88214

88199







22 Feb

✓ NAF  
#20 Uk spt. 6lkspt 9- 71.1 x 47.7-  
♀ " " 10-

BIP SAZ 8:30 PM  
new bands used 943-88342 → 346

✓ 346 reband

repeats + returns 354 - still deformed

903-15462

943-87988

1 88233

88224

87982

88307

753-33797 reband w/ 346

~~903-03805~~ <sup>903</sup> 14779

903-15158

" 03730

23 Feb 69

RFB nest check

nest # band # egg meas.

nothing new

BFB nest check

6lk bar, 6lkspt. 9 still in SAF  
no new nests or eggs

Brown Booby NAF

767-51137 ANY

Sunset roost count (North tower)

RFB locals 0

adults 262

flying 17

GF.

immatures 11 } immediately in  
adults 2 } 6th g tower

total others 50

flying 2



23 Feb

sun set 18:49

sky 85-90% cloudy

wind NW ~ 2-3

(18 GF's in Casuarina tree  
behind generator bldg.

2 seals hauled out on N. pt  
~ 8:30 pm.

1 seal swimming off NWB 7:55 PM

Carlew present in NAF 1715

BIP ~~SA2~~<sup>NAF</sup> (8:15 PM - 8:45)

new bands used 943-88361 + 64 ✓

returns + repeats ✓

943-88907

moon beginning 2<sup>nd</sup> quarter ✓  
wind 1-2 WNW mostly cloudy

24 Feb

Albatross nest check (SWB)

B206 737-92675 restreamed

B126 737-45547 restreamed

BIP SA2

new bands used 943-88365 400

943-88401 30

returns + repeats

903-13365 ✓

943-87980 ✓

773-18370 4/95 ✓

15390 ✓

88343 ✓

15213 ✓

87932 ✓

15302 ✓

88144 ✓

88353 ✓

88161 ✓

88052 ✓

88360 ✓



24 Feb  
Roosting Albatross

2 BFT

2  
RW.

SWB

new bands used (L.A.)

767-51837 - 900

767-51901 - 52000



✓ 25 Feb

BIP SA2 nestcheck

#9 abandoned

8 "

10 egg found broken (bird in burrow)

1 abandoned

13 "

12 egg found broken (bird in burrow)

14 abandoned

20 "

19 no egg found (bird in burrow)

#1 abandoned

2 "

3 "

4 active

5 " 943-88431

6 " " 87967

18 abandoned

19 bird pres. egg?

NIF new bands used  
943-88431-438

✓ #32 Ad. egg stuck to BP

new nest # egg meas band #

25 51.2 x 39.3 33

26 54.5 x 38.5

27 50.2 x 39.9 88329

none 34

28 51.4 x 38.2 753-33899 <sup>ul</sup> 35

29 50.4 x 37.3 36

30 50.7 x 37.4 37

SAF

H 53.1 x 38.1 38

G 753-33953

F 943-88341

E 88340

D ~~111~~ unbanded

C 88932

B 87961

A 88930

check



✓ 25 Feb

RTTB return NAF

✓ 615-10125

BIP NAF

new bands used 943-88439 → 65  
42 (on egg)

N returned eggs

943-88190 77318229 reh w/ 444

88194

87390

88182

88432

903-13033 ✓

Roosting Albatross

767-46101 — 46300

119 added to 597-74842

26 Feb ✓

Sharebird count

NWB RT 5 7:44  
WT 5 1

GP 12  
North point 0 8:00

NEB RT 2  
S 2  
GP 1

Runway GP 11 8:21  
RT 8

9:05

LA recovery RWO 737-10485



✓ 26 Feb

RFB nest check

nest # egg meas. band #  
5 737.91592

6 unattended

10 egg on ground (unbroken + replaced)

RFB egg meas. (west portion C. Roost)

62.3 x 43.1 ) 62.0 x 40.7

64.3 x 43.3 ) 69.0 x 40.0

60.9 x 41.6 ) 58.1 x 40.4

BIP SAF

nest designation egg meas. band #  
I 47.7 x 37.9

26 Feb  
Sunset Roost count

locals 0

RFB others ~~75~~ 175 (1 subadult)

flying ~~22~~ 12

GF in front of tower { 10 immat  
1 adult  
others 73

flying 2

BIP SAF 8:15 - 9:00 PM

new bands used 943-88466-500

returns & repeats

✓ 943-88134

✓ 88237

✓ 88160

✓ 943-20664

✓ 903-15390

✓ 15693

✓ 03671

repeat  
793-20602 w/ 68

753-33107 w/

15699

903 15199



✓ 26 Feb

Sera samples (LA)

✓ 27 Feb

BIP SAF study area  
poison (6) cans placed  
along edge of Scaevola

newbands used 943-88507-508

507 nest D SAF /

508 nest I SAF /

BFB

2<sup>nd</sup> egg in nest #18 SAF  
new nest #22 NAF

or did birds of #20 abandon  
1st egg + re-estab. a new nest?



27 Feb

BIP NAF

new bands used 943-88509-21

returns & repeats

943-88464

903

87922

88990

793

753

28 Feb

RFB north roost  
egg meas

63.1 x 44.0

65.5 x 41.1

67.8 x 40.7

59.5 x 41.4

58.5 x 37.8

60.7 x 42.1

60.0 x 41.6

64.2 x 40.7

60.5 x 41.9

58.0 x 43.2

58.3 x 39.3

60.1 x 40.5

60.3 x 39.6

64.9 x 41.9

62.8 x 42.0

64.6 x 40.3

56.4 x 41.7

62.9 x 44.6

737-97563 streamer

64.3 x 41.7

64.8 x 39.6

65.3 x 40.3

64.0 x 40.1



✓ North roost (near beach)

Imm. RFB

767-51489 green streamered  
(brown)

2  

---

Central Roost

#6 767-45242 ✓

#10 destroyed

#9 / #59 ✓

#11 737-98194 ✓

28 Feb.

31P SA2 8:20-9:20

new birds used: 943-88522-563

4526 w/PBP 534 w/PBP 551 no BP  
549

returns + repeats

?  
903-03444 ~~repeat~~ 943-87599 ✓ 773-18474 ✓  
13348 ✓ 88932 ✓ 18354 w/36 ✓  
13365 ✓ 88058 ✓  
{03805} ✓ 87930 ✓  
{14779} ✓ 88132 ✓  
✓ 03361 w/563 88398 ✓  
88151 ✓  
88059 ✓  
793-20205 w/552 88298 ✓  
88083 ✓  
88304 ✓



✓ 28 Feb.

BIP SAT 12 midnight

H: both birds present (unbanded)

G: same as afternoon

F 88961 ~~340~~

E 88340

D 88507

C 88932 \* \* these eggs have

B 88934 been cracked or

A 88930 \* dented

I unbanded \*

1 March

B 88934 egg OK

I unbanded

C 88932

D 88507

A 88930 bird flew away

F unattended egg not cracked

E 88340 egg OK

G " egg OK

H 438 egg OK



20-24-11

1. 10-11-11

2. 11-12-11

3. 12-13-11

4. 13-14-11

5. 14-15-11

6. 15-16-11

7. 16-17-11

8. 17-18-11

9. 18-19-11

10. 19-20-11

1

2

11-12-11

12-13-11

13-14-11

14-15-11

15-16-11

16-17-11

17-18-11

18-19-11

19-20-11



Feb - Janja II

2.60 4 Feb

.81 27 Feb

+ .13 additional

---

3.54 total

Temp range

58° - 75° F

low 60's to low 70's on average

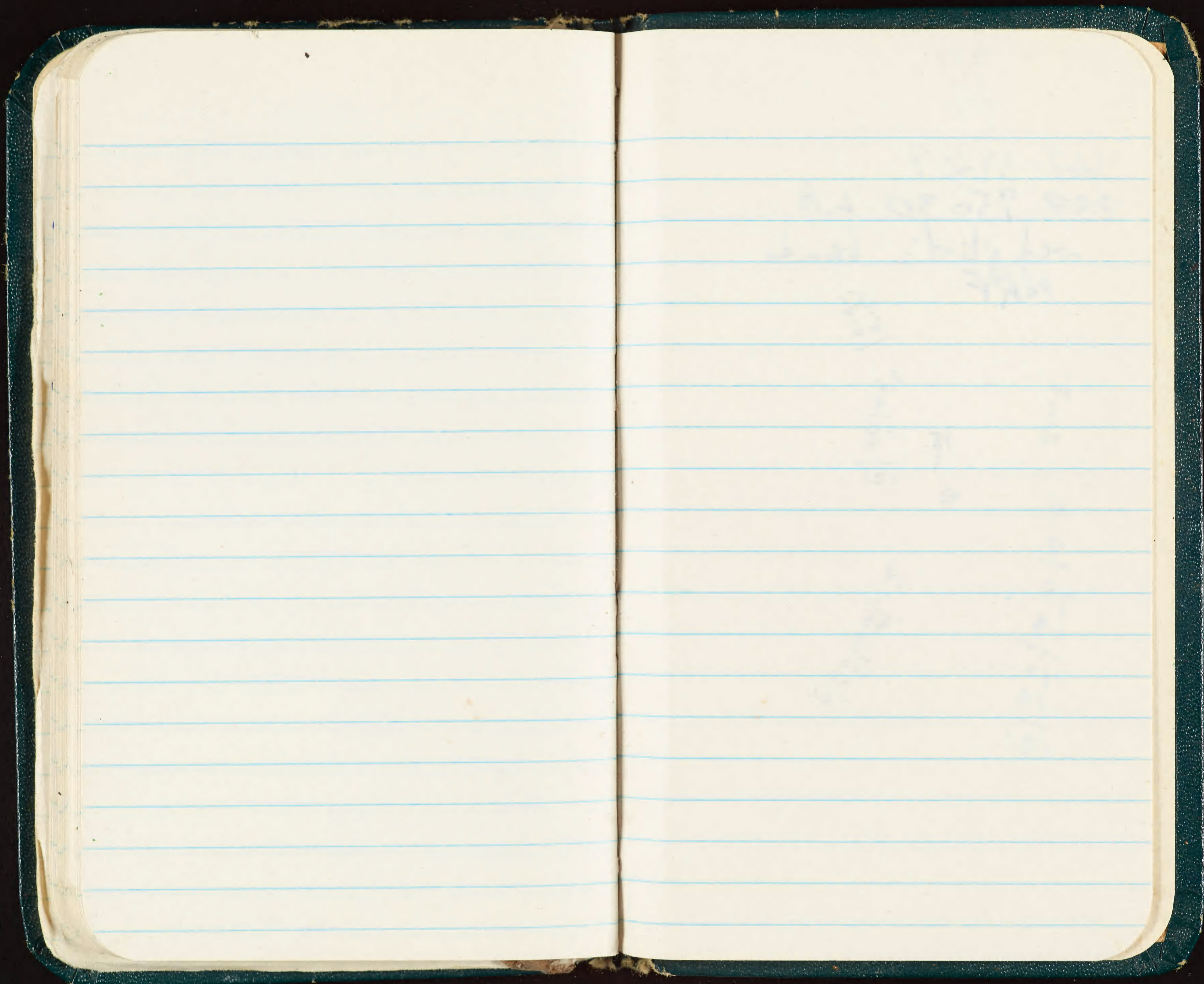
lagoon water temp ~ 68° F - 70° F  
water temp at reef ~ 70 - 72° F



7

2







284  
 516  
 700

667-39207  
 737-95030-LA  
 red plastic band  
 NAF

56  
 66

14  
 5  
 70

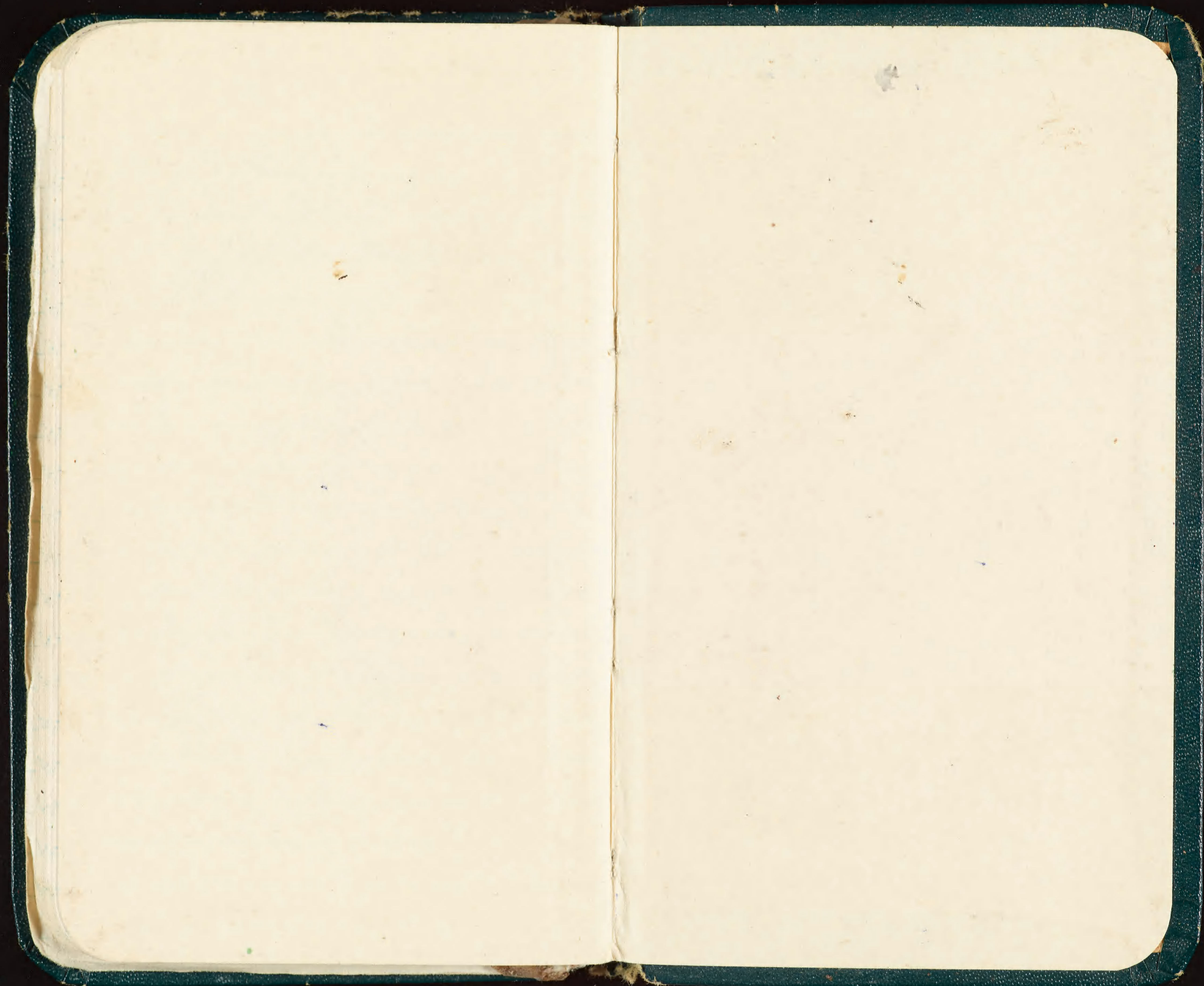
18  
 5  
 60

3  
 14  
 112  
 5  
 121

14  
 7  
 98  
 13  
 11  
 10  
 121

14  
 7  
 98  
 13  
 11  
 10  
 121







**7530-222-0078**  
**FEDERAL SUPPLY SERVICE**

GPO c48--16-73124-2



Memoranda

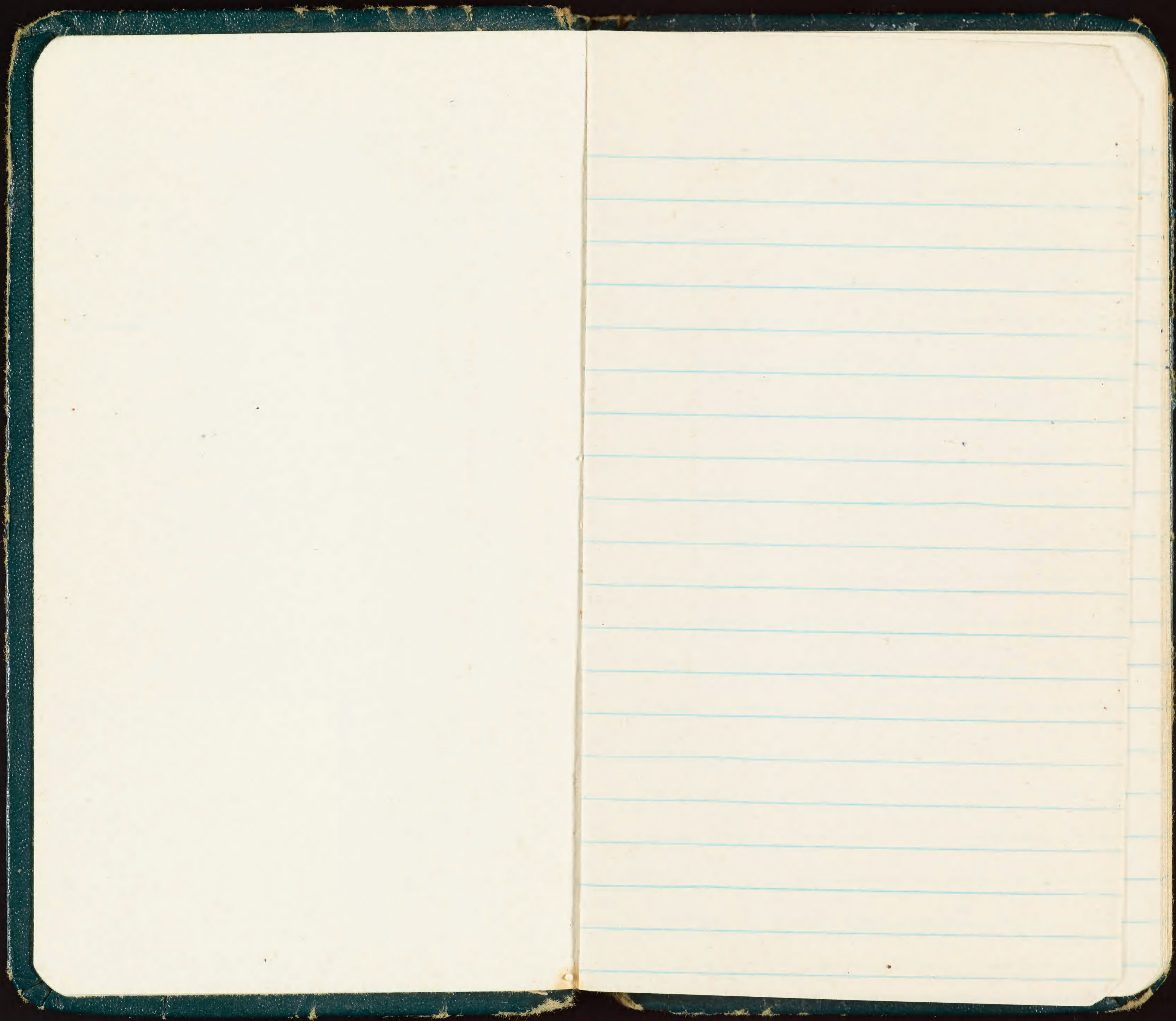


Dana -

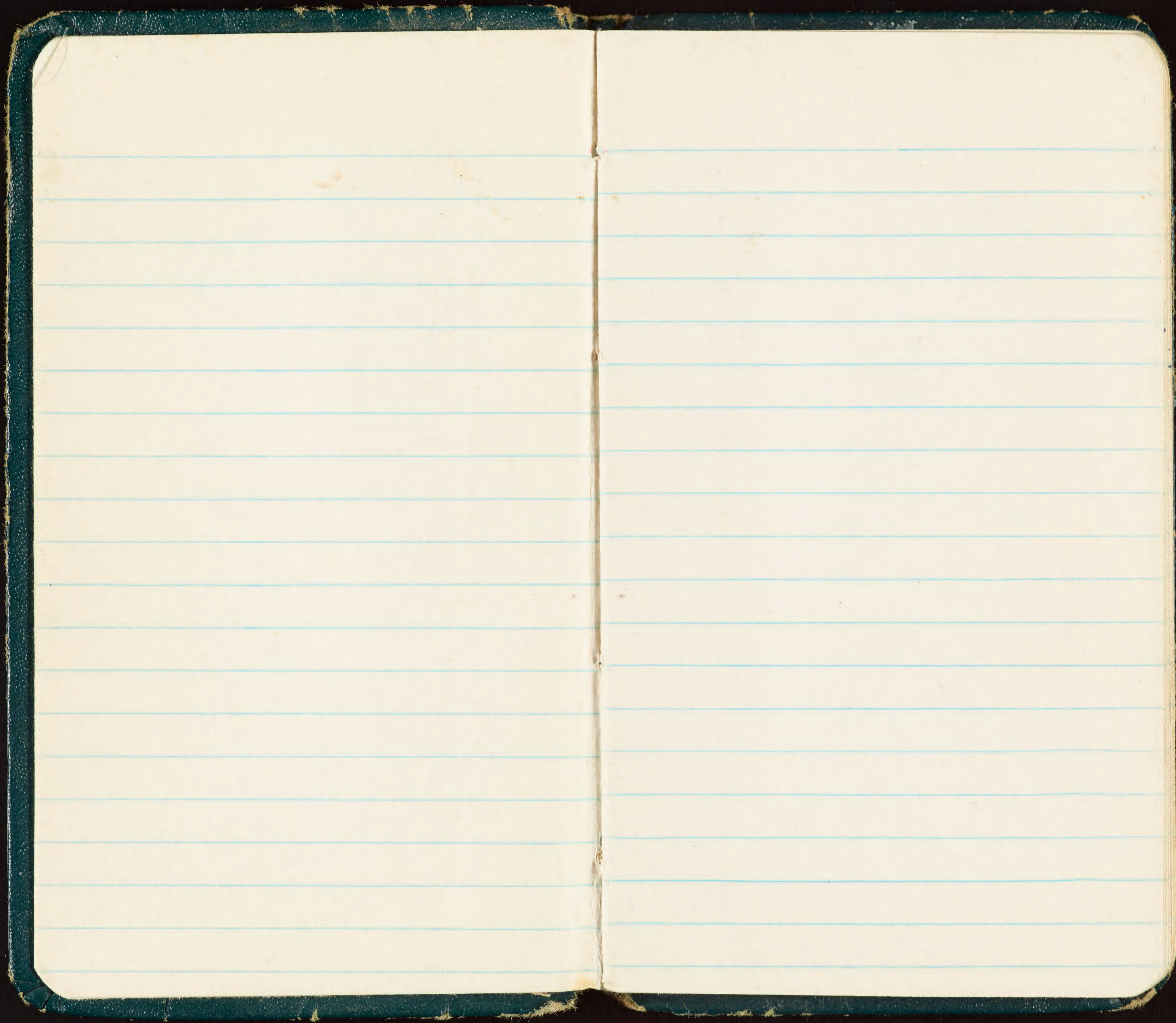
Kure

1969

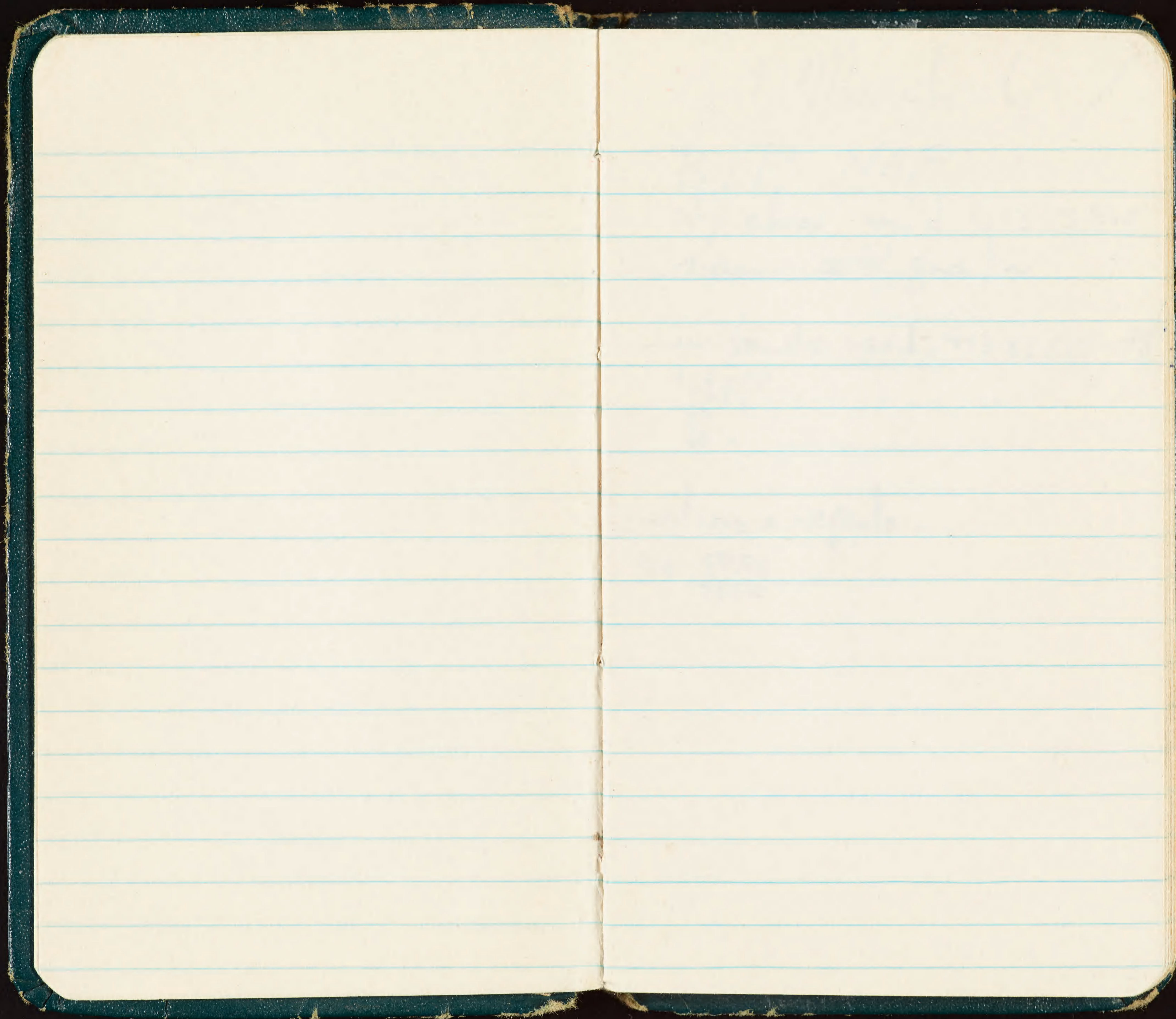














1 March 69 ✓

BIP NAF

sky clear, wind 6-8 SSW

moon 2<sup>nd</sup> quarter

new bands used: 943-88564-75

#64 PRP

65 "

66 "

returns & repeats

943-88990

88510



✓ 2 March

RTTB 1400 count (51 TD

(60 vk

1 bird caught in SAF, landed  
+ streamered

5 seals M.P. 11:00 AM

1 swimming along NEB

1 turtle between reef + NEB

2 March ✓

BFB nest check

#1 chick

#21 2<sup>nd</sup> egg. 63.3 x 45.5 //

#22 1<sup>st</sup> egg 64.4 x 47.1 //

---

#9 ♂ blk center spl.; brown spl. 7

---



/ 2 March

BIP. JAF

new band. 943-88576

943-88577 lost

2 March

✓

BIP SAZ

new bands used 943-88578 - 600  
8:15 - 845

17 new bandings

returns & repeats

903-03138 w/#581

943-88292

903-13184



2 March

Sunset Roost Count North Roost

Sunset: 1853

sky: 10% clouds (high, north + east)

wind: NW 5-6 kts

GF immad 12 } in front  
adult 7 } of tower  
others 88 + 3 on guy wires  
flying 4

RFB locals 0  
others 228 includes 1 wht. brow.  
flying 10

3 March

RFB nests study area Central Roost

#7 egg broken under my harassment

#9 737-45281 //

#6 abandoned (no signs of egg)  
in same bush as dd #16



3 March

✓ BIP SAF

A	930
B	934
C	932
D	507
E	340
F	unattended
G	33953
H	438
I	576

---

BIP NAF

new bands used 943-88601-616

603 no BP

607 "

returns & repeats

943-88990

~~88170~~

~~88179~~

88992

88963

3 March

LA

new bands used 767-47601-47612



4 March  
 BIP NAF  
 already abandoned 1, 2, 3, 13, 17, 18  
 7, 19

measure egg in all nests beyond  
 # 30

new bands used 943-88618-620

31	51.2 x 38.6	
32	49.4 x 37.3	
33	49.7 x 35.9	
34	<del>prev. measured</del> 48.6 x 36.0	
35	49.9 x 37.4	# 618 burrow only about 30" long
36	48.2 x 39.8	# 619
37	48.9 x 36.5	# 620
38	47.0 x 37.0	
39	49.6 x 38.5	

/ egg + bird pres  
 - bird pres, can't reach egg

#	nest check status	#	WAF status
4	— ✓	24	✓
5	✓	25	✓
6	✓	26	— ✓
7	—	27	✓
8	✓	28	✓
9	✓	29	abandoned
10	— ✓	30	— ✓
11	— ✓	31	✓
12	—	32	— ✓
13	—	33	✓
14	— ✓	34	✓
15	— ✓		
16	✓		
17	—		
18	—		
19	—		
20	✓		
21	✓		
22	— ✓		
23	✓		



4 March

B

a) BIP SAF

A "

B "

C "

D "

E both birds present

F alone

G "

H "

I "

BIP SA2

newbands used 943-88621-677

647- no BP

670 "

returns & repeats

943-88081✓

88227✓

88084✓

88563✓

88372✓

88600✓

88563✓

903-13365 repeat

03301 w/627✓

15091 w/624✓

15085

03806 w/645-

cont

4 March

returns & repeats cont.

943-88555✓

88543

88058

88308

88365

903-03339 w/661✓

03375 w/669✓

943-20261 w/?/



5 March

Shorebird count

NWB RT 7  
GP 2  
S 1

8:40

N Pt. RT 1

7:58

NEB RT 1  
GP  
S 2

2 seals on  
beach  
1 swimming

8:18

Runway RT 11  
GP 8  
S

8:55

5 March

737-90170 BFA recovery  
~~NWB~~ NWB  
back chewed by rats



5 March

Sunset Roost Count

sunset, horizon obscured 1853

wind SSE 12-15 kts.

sky: 85% cloudy

RFB locals 0  
others 154  
flying 24

GF immatures \* 11 } in front of  
adults 47 } tower  
others 67  
flying 22

5 March

BIT NAF

new bands used 943-88678-700

returns & repeats

943-88172-

903-13027

88450-

88913

88209-

88182-

753-33319 w/681

88953-

88463-



5 March

LA: Roosting EERW, SAF,  
NAF, NWB, NPH.

new bands used 767-~~4~~613 - 700  
701-800

6 March ✓

RFB nest study area  
nest # egg measurement band #

nothing

RTTB

new bands used 645-12368 ✓✓  
green streamers



6 March

✓ BFB nestcheck  
#22 2<sup>nd</sup> egg 60.5x 47.3 ✓  
• 3 unattended (eggs cold)  
#1 2<sup>nd</sup> egg hatch

BIP SA2

8:25 PM

turning

9:25

new bands used 943-88701-800  
943-89001-005

returns & repeats

943-88226 ✓  
~~88102~~

7 March

BIP SAF

egg meas.

✓ 54.4 x 38.0

BIP NAF wind W. 20-25  
clear, no moon (3<sup>rd</sup> quarter below hor.)  
new bands used 89006-036

007 no BP

30 on egg

17, 20, 21

returns & repeats

943-87964 ✓

903-3204 ✓

88 464 ✓

88 183 ✓



7 March

RTTB 1400 count up

N - 18-25 kts

scattered clouds

8 March

1400 Tropic bird count  
~~69~~ 69 : 75 according to Van  
sky partly cloudy 60%  
wind ENE 15-20 kts.

BFB

2<sup>nd</sup> egg #23 ✓

67.4 x 45.3 ✓

2<sup>nd</sup> egg hatch in #2 ✓

Sooties ~ 300 off SE  
side of island ~ 1900 hrs



8 March

BIP: WAF nest check

#38 chick ~3 days old

SAF 2 changes in  
incubating birds

BIP SAF 2 E wind 15-20 kts.

moon (3<sup>rd</sup> quarter not rising until  
~ 11:30 PM)

sky: ~~cloudy~~ mostly clear

new bands used 943 89057-89100

041 PBD 054 NBP 89101-105

1070 " returns 103 PBD

repeats

943-88625

✓530

✓085

✓981

✓304

✓627

returns

✓103-15462

✓15284

✓03156 w/74

✓793-20567 w/052

✓793-21086 w/72

✓103-03387 ~73

8 March

repeats

NBP 44, 49, 83

✓88624

✓728

✓428

✓368

✓582

✓793

✓349

✓106

✓746

✓675

✓372



9 March

RFB nest check  
no change, no new nests

// RRTB: new band 645-12369  
Central roost 605-21407

8 Sooty terns overhead  
12:30 PM

60 (by count), swirling off  
east side of atoll (1400)

1 fairy tern overhead 1400

9 March

BIP egg meas SAF

✓ 54.7 x 38.2

✓ 52.4 x 38.5

BFB nest check

✓ #22 unattended

\* 10 "



9 March

Sunset Roost count (North Roost)  
sunset having obscured count made at 1855  
sky 75% cloudy  
wind NW 11-14 kts

GF immat. 10  
adults 42  
others 101

TFB flying 35  
roosting + nesting 270  
flying 12

9 MARCH

BIP NAF 9:05 PM  
new bands used 943-89106-25

repeats	returns
943-87965	753-33160 w/107
88458	33088 w/106
88907	
88953	
87924	



10 March

// RTTB new band 645-12371  
streamer

BIP NAF  
/ #28 chick present  
SAF

\ egg measurement 51.7 x 39.0

10 March

BFB #4 egg hatch

BIP SAZ 8:15

new bands used 943-89126-189

172 PBD NBP 41, 46, 58, 75, 76

repeats

returns *repeated*

✓ 943-88600

✓ 903-13317

✓ 88096

✓ 773-18259 w/148

✓ 88045

✓ 793-21274 w/150

✓ 88074

✓ 88751

✓ 793-20575 w/169

✓ 88265

✓ 753-33726 w/183

✓ 88144

✓ 87942

✓ 903-15064

✓ 88115

✓ 903-15301

✓ 88385

✓ 88238

✓ 88384

✓ 87930

✓ 87994



10 March

767-47801 - new bands used  
900 901 - 48000

LA

~~737-47979~~

11 March

BIP NAF 8:20-850

new bands used 943-89190-200 ✓

NBP 97,92 ✓

✓ returns

753-33091 w/199

753-32627 w/200

✓ repeats

943-88953

166

514

914

326

no moon  
mostly cloudy  
light northwest-  
ely breeze

no swirl of Sooties located  
today - by 9:00 PM back  
over central roost in numbers  
+ north roost

1 Christmas Is. Shearwater  
seen flying over island  
~ 1910 hrs.



✓ 11 March

Laysan Albatross recaptures

887-06643

697 82947

88847

22795

02198

22668

90273

90272

597 53782  
45853

667-42935

39442

39358

39244

39448

39475

757 70654

94691

85465

✓ 11 March

Laysan Albatross recaptures

737-91264

94518

47057

90774

98269

92574

15582

47085

93327

94282

95087

95381

97379

90284

95134

93419

10306

16763

95343

92045

92585

45782

95050

97230

95103

92592

737 92043

90033

96092

92274

96583

95321

93639

95317

95330

96616

94526

94493

90027

96611

96331

94256

94244

92110

95045

91431

17371

93431

91860

94125

92530

98591

96563

98023

91843

95016

737 97816

94407

96482

96619

95341

94869

11731

90428

19226

98600

94456

95550

98040

96874

95607



11 March

Laysan

Albatross recaptures

~~737-587-91751~~  
 72226  
 91927  
 91981  
 91713  
 91707  
 715  
 718  
 966  
 733  
 735  
 572  
 704  
 996  
 71231  
 91737  
 738  
 27003  
 91967  
 85818  
 85817

767-52000  
 46111  
 72098  
 51050  
 46217  
 46128  
 47709  
 47717  
 46146  
 46229  
 47736  
 46167  
 45306  
 46237  
 51594  
 46243  
 40477  
 19723  
 47660  
 47651  
 46173  
 46177  
 47629  
 47743  
 46184

767-46187  
 47665  
 46197  
 47755  
 46276  
 46188  
 46199  
 46191  
 47723  
 46285  
 47684  
 47764  
 47767  
 46308  
 47687  
 47763  
 47759  
 47742  
 46284  
 47777

156  
 186  
 42

11 March

BF Albatross recaptures

737-97488 ✓ 587-58842  
 98694 ✓

767-51084



12 March

Shorebird count

NWB RT 5 S 7:50  
GP  
N Pd. RT 2 8:12  
S 1  
NEB RT 3  
GP  
S 2  
R Way. RT 14 8:30  
GP 11 9:02

1 seal in water off NEB  
4-5 sets of fresh tracks

12 March

RFB

767-45821 (nest near #1  
green streamer no egg yet.  
old #29

Sunset Roost count

~~5:00~~ into WNE sky: 55% cloudy  
wind: ~~10-12~~ 9-13 kts.  
Sunset horizon obscured cont at 19:01

GF immatures 9  
males 28  
other adults 23  
all others 92  
flying 12  
} in front of tower

RFB locals 0  
others 228  
flying 16



12 March

BIP SA2 8:20

sky: 50-60% cloudy

wind: 9-13 kts N

no moon

new lands used 943-89201-248

806 RFBP

218

squats

943-88301

082

87994

87930

88058

88060

89148

88384

returns

903-03829 /w 103

15084

793-21419 w/ 223

20811 w/ 240

21131 w/ 238

BIP egg measurement

52.5 x 36.6

13 March

RTTB 1400 count 95

wind 9-14 Easterly

sky - 45% cloudy

645-12372 + 73 pair

new  
lands  
used

returns

635-16538 SEB

BFB #3 1<sup>st</sup> egg hatch  
#4 2<sup>nd</sup> egg hatched #10 unattended

new nest #24 9 blk center spl, red spl. 4  
NAF on " " 5

BIP

egg 70.8 x 45.1

egg 49.6 x 35.3

SAF



13 March

BIP NAF

new bands used 943-89249-272

RFBP. 252, 251

No BP 271

repeats

943-89198

88909

88316

88946

88979

89106

~~89182~~

returns

773-18295 w/250

return from SAF

843-70685 w/ 273

de feathering BP

13 March

RFB 737-45323 (adult)  
north-roost



14 March

150  
1335 N 125 Sooties  
swirling off SEB

RTTB 1400 170, 2-5 kt. wind  
easterly, sky clear

new lands used 645-12374-76

74+75 as a pair RW.

76 BFT

14 March

5A2  
BTP ~~AAF~~ 8.20

sky: ~5% density, no moon  
wind

new lands used 943-89274-300

NBP 277, 280

301-318

PBP 279, 316, 318

repeats

943-8801

88044

88483

88295

88161

88045

88108

88378

88428

87943

88132

88246

88226

retains

903-03842

03408 w/276

15109

793-20639 w/298

753-33963 w/299

753-33957 w/300

903-13196



15 March

~30 GF nests in north  
roost areas

1 fairy tern overhead (1730)

Sooties in swirl off NEB  
~750 scattered in air + small  
gangs flying in over island (1800)

~10 grey backs off NEB

15 March

BIP WAF 8:20-9:00

overcast no moon 2-5 kt. WSW  
wind

new bands rec'd 943-89319-39

RBP 35, 37, 39

repeats

943-88567

88619

89113

returns

903-13024 4/36



16 March

RFB North Roost

behind 1st Marsh. bush

3 new nests, no new eggs

1 w/ egg prev. meas.

2nd Marsh. bush 17 w/out eggs  
2 w/ prev meas.

55.2 x 38.2 (new egg)

14 no egg  $\frac{4}{3}$  prev. meas

1 chick

63.6 x 42.6 (new egg)

(1 w. wht. phase w/ green stream)

4 w/ no egg intersect. of paths

1 w/ no egg 2 prev meas.

knoll w/ new path

16 March

infant tower

27 w/ no egg

8 prev. meas.

56.1 x 39.9 new egg

Central Roost

7 no egg

2 prev. meas

w/  
2 ~~no~~ egg

7 contents?



16 March

Sunset roost count Central Roost

sunset: 1903

sky 5-10% cloudy

wind wnw 5-8 kts.

Central portion

GF males 18

immatures 4

other adults 43 (20 deg. ♀'s)

flying 2

RFB locals 0

adults 152

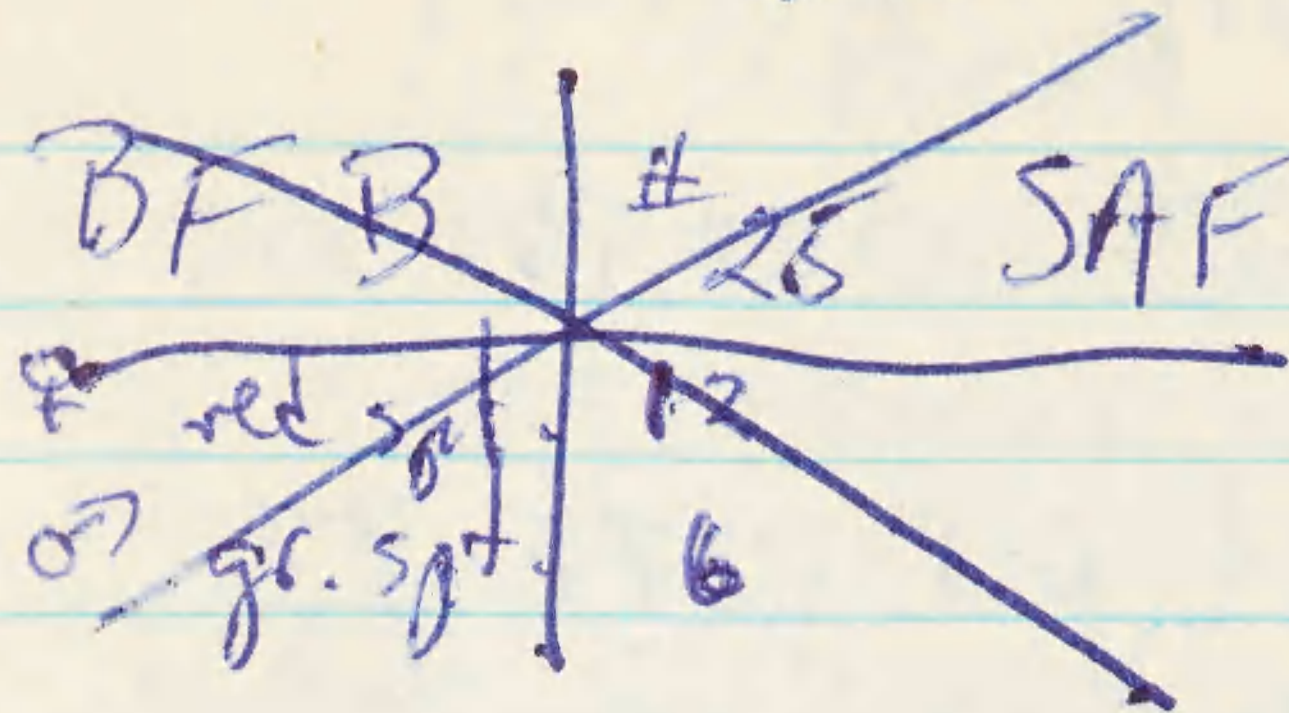
West portion

RFB locals 0

adults 88

RFB flying 13

16 March



BIP SA2 8:15

wind wnw 5-8

sky 20% cloudy no moon

new bands used 943-89340-70

RFBP 44 (41) 55, 52, 69 NBP 56  
imp. lft. leg

repeats

943-88082

124

396

131

87998

941

88744

943-89245

070

returns

903-13184 repeat

03019 w/ 42

15192

14702

753-33308 w/ 54

No BP



17 March

RTTB SWB

new bands used 645-12378-7711

both on eggs green stroke

also count 92

10% clouds, wind southerly 3-5

BFB nest # <sup>9</sup>~~28~~ transferred  
10 unattended chick dead  
♀ on 3 again

BIP nest 1 egg hatch

immature Br. Wt. RFB

flying over NAF

2 imm. BB (only 1 painted)

17 March

943-89371 used to reband

793-21008 in SA 2

NAF 8:30-8:50

new bands used 943-89372-389

repeals

943-88682

615

442

510

returns

943-89253

030

Laysan.

new bands used 767-48945-49000

767-51673-51700

767-49301-49350

BFA

767-46058-46065



17 March

Lay Sam

Albatross

returns  
repeats

587

587

697

91830  
91855  
91665  
91646  
91847  
91658  
91648  
91652  
91790  
91673  
91694  
91684  
66389  
51692  
91793  
91796  
91884  
85806  
91893  
85790  
85777  
91913  
91647  
91922  
85796  
91873  
65829

91750  
91575  
91751

82105  
85968  
79887  
90389  
90391  
90418  
90417  
24573  
90644  
90591  
22372

737

737

737

97101  
96067  
13642  
96464  
92022  
45640  
92075  
96854  
97009  
95671  
95670  
95652  
99164  
97129  
92215  
95626  
91309  
99240  
95483  
98141  
97036  
95489  
95276  
95487  
97305  
97144  
96394  
93283  
95299  
92160

94336  
92352  
98249  
93460  
96312  
97177  
94354  
96629  
97093  
96153  
10518  
96736  
97532  
95417  
95439  
95656  
95412  
94850  
94779  
95223  
95207  
97342  
93364  
96240  
97113  
95202  
95185  
45993  
97358  
92140

95159  
95146  
95152  
96383  
94270  
15108  
93868  
90778  
93419  
90799  
97228



✓

17 March

767

767

767

46330  
 47802  
 45377  
 45335  
 47901  
 71639  
 51895  
 47935  
 46355  
 46416  
 51862  
 46669  
 46379  
 46310  
 47951  
 47881  
 46451  
 51952  
 51829  
 47991  
 46621  
 51985  
 47611

17 March

✓

667

597

887

39310

46430

44978

39080

39628

39770

39665

757

72323



17 March

BFA

✓ 597-84149	✓ 737	✓ 747
	✓ 97494	✓ 78032
	✓ 97463	✓ 46058
	✓ 99827	✓ 92742
✓ 697-22965	✓ 98670	✓ 77338
	✓ 98522	✓ 51075
	✓ 97476	
✓ 887-13735	✓ 98523	
	✓ 90961	
	✓ 97475	
✓ 667-93911	✓ 91631	
	✓ 99858	
	✓ 99862	
	✓ 45600	

18 March

~~new bands used 747-50801~~

RFB

nest study area

nest #

egg meas.

band #

returns

737-98447 gr. str.

#11 chick

RTTB

~~new bands used 645-12379~~



18 Mar.

BIP SA2 8:15

no moon, wind 55W 18-22K

new bands used 943-89390 - 446 44 43

RFBP 90, 91, 93, 96, 97, 99, 400, 421, 20, 16

WBP 417, 35, 34, 33, 40 } 36, 41, 42, 45

repeats

943-88670	89245
600	074
232	152
800	
152	
428	87980
744	
547	
257	
751	
535	
769	
096	
524	
474	

returns

793	21154	w/92
903	13186	
	13316	
	03143	w/98
	03151	w/422
773	18004	w/419
903	13037	
753	33990	w/37
903	03364	w/39
	13322	
{ 903	15391	
{ 773	18267	

18 March

BFA

none



18 Mar.

LA.

767

767

667

74621

51861

35435✓

46112

46299

47635

47700

51045

47782

51047

47978

46137

46129

46224

597

46142

46251

46151

88766

46147

887

47792

06407✓

47714

46240

46233

697

46172

22492

46252

06456

46259

86255

46183

22570

46190

22830

46265

46263

757

46196

94075

46273

47751

46198

587

91934

91957

66548

91984

71249

91857

91704

91997

36967

85813

91530

18 Mar.

LA

737

737

47050

96563

95132

95056

97225

95012

95382

94750

95167

95034

92565

94763

97119

90322

95351

96619

95063

95887

91126

95539

92588

98598

94605

94730

95306

95517

10321

95606

95336

97006

93099

96878

94896

95038

99066

95050

96637

95008

11293

92796

94152

90571

13160







✓ 19 March

Sooty tern path leading from  
903-05547 NAB

BIP 8:20 - 8:50

raining  
newbands used 943-89447-66

RBF 48, 50 NBP 49

repeats

94388 176

436

681

89021

87921

returns

773-18218 w/51

✓ 20 March

seals 2 NEB early aft  
1 NWB

BIP 50.0 x 38.3

FFT (infertile)

BIP 5A2 8:20

moon 1<sup>st</sup> quarter sky 45% cloud

wind

newbands used 943-89467-522

NBP 68, 74, 14

RFBP 70, 71, 72, 73, 75, 95, 99, 16, 17, 18

repeats 89075  
175

943-88227

083

058 302

074 372

~~212~~ 232

376 102

735 075

88

782

254

88488 w/793-20230

736

462

132

returns

903-15390 repeat 903-14781

15284 repeat 13074

813-91005 w/15

793-20525 w/94

903 03710 w/96



✓

20 Mar

BIP SAZ

repeats

903-89343

87930

88299

returns

903-13303

RFB W.R.

737 - 45277

6 wed. tails  
1 cis

21 Mar ✓

✓ RTTB 645-12379 (new band)  
gr. str.

(caught across from lab.)

return same area

645-12230

✓ new band 645-12380 gr. str.  
whip antenna behind trans. bldg.  
gen.

1400 count 345

sky 5-6% clouds wind NNE 7-10 kts.



✓ 21 March

RFB (Central Roost)

returns

737-91670 (former sex sample) repeat  
✓ 767-51668 " " " ~~repeat~~  
✓ 737-98390  
✓ 737-99549  
✓ 767-46913 (8)

new bands 747-50701  
ge. str.

702 (nesting?)

BIP SAF

nest K egg hatch

✓ 21 March

BFB 22 unattended

10 unattended (1st egg broken -  
perhaps chick had pecked its  
way out as was  $\frac{3}{4}$  out of shell  
& covered by ants)

8 unattended

BIP WAF 8:45

sky: clear, moon 1st quarter, wind N 8-12  
new bands used 943-89523-50

RFBP 28, 27, 26, 25, 23

24 stump lt. legs

repeats

87954  
89034  
89019  
88619  
87973  
89466

returns

903-13022



✓  
North ~~east~~ RFB returns

? 737- 91676 96745221

737- 45301 46992

98429 46993

98393 45805

45343 51382

99566 45939

45158 51357 (on egg)

90638 ll.

99810 GB

91059 8b.

92876 ll.

757- 36120 46988 ll.

667- 39612 ll. 45513 ll.

21 March  
GF returns

GF ♂

♀

✓ 767- 51207 737 98317

✓ 767- 45161

✓ 767- 46505

✓ 77- 51564 immet

✓ 51558 " (whit. head)

✓ 51557 " " w/br. sp.

✓ 51560 " " rusty head

501 ♂ 516 ♀

502 ♀ 517 ♂

503 imm 518 ♀

504 ♂

505 ♀

506 ♀

507 imm

508 "

509 "

510 ♂

511 ♂

512 imm not head rusty throat

513 " " "

514 " Spec. rusty head

515 " wht. head

new bands used

501 - 518



22 March

BFB

1<sup>st</sup> chick #12 dead

22 unattended

8 "

10 "

one new present NAF

2 fairy terns over SFF

Sooties over M. roost ~ 1800  
\* C. roost

22 March

BIP 5A2 8:20  
moon 1<sup>st</sup> quart. 40% clouds ESE 8-12 k  
new bands used 943-89551-97  
NBP 57 (flying) 53  
RFBP 56, 55, 54,

repeats		returns
943-88600	748 w/	903-15284 repeat
373	494 w/	15390 repeat
081	89481	15289
301	516	14778 repeat
159	147	15279 repeat
381	418	15109 repeat
588 w/	301	15107 repeat
427	87995	
065	939 w/	
737		793-20664 w/87
394	89369	
404		
384		
360		
729		



22 March

RFB: Central Roost

767-45285 937-96861 bh.  
✓45854 ✓45420 gh.  
✓46976 bh. ✓767-46938 gh.  
✓45235 gh. ✓97583 bh.  
✓45236 bh. ✓91986  
Midway 40184 bh. ✓99535 gh.  
✓46954 bh. 767-45244 (~~767-?~~)  
✓45209 gh. 737-48469 repeat  
✓45933 747-55095 make  
✓51352 (former seen)  
✓51346 bh.  
✓45861 gh.  
✓767-45242 gh. slm. repeat  
✓767-46909 737-92915 (4)  
~~45997~~ ✓46917 gh. 2 pr.  
✓54912 (former seen) ✓95974 bh.  
✓737-95939 repeat 98194 (11 ♂?)  
✓767-45533 ✓737-98409 gh. 2 pr.  
✓45437 bh.

22 March

Central Roost

GF  
new land  
519 ♀



✓ 23 March

Sunset tower count  
herring disjunct count 1904  
overcast wind 9-14 S

GF in pt. of tower.

ad ♂ 21 ad ♀ 22 unmet. 11

undetermined sex 16 70 total

all others 133

flying 6

RFB in pt. of tower

subadults 2

adults 60

all others 210

flying 15

1 C1 Shearwater flying  
caught + banded

✓ 23 March

1300 hrs. 7 Common nodies  
on N. point

~12 greybacks flying around  
N. pt. + occasionally landing  
2 jaegers flew over N. pt.

~50 " " roosting N. pt.

1900 ~12 greybacks along NWB

~200 Sooties over N. coast

another 400-500 off N. EB



✓ 23 March

BIP NAF 825

wind: southerly 9-14 k

sky: 90% cloudy

moon: 15<sup>+</sup> quarter

new band used 993-89598-620

repeats

943-88511 87  
167

returns

753-32623 w/618

89252  
034

✓ 23 March

~~BB returns NAF~~

BF B new band <sup>767</sup> 49520

EE R ✓

other bird flew



24 March

RTTB count at 1400 312-325

sky 45% cloudy with E 12-15

SW-B

✓ new bands used 645-12385 — 91

88+89 on eggs (mates given banded)

BIP SAZ 825

sky 80-85% cloudy, moon 1<sup>st</sup> quart., wind SE 14-18

new bands 943-89621 — 50

NBP 26

25 (flying)

repeats

88477 372

083 523

158 710

343 798

556 345

351

117

486

549

89052 w

349 w

356

574

436

87

returns

903-13365 repeat

03171 w/28

15320 repeat

773 18461 w/27

903-15153 repeat

15220

15287

24 Mar ✓

WTS 5A2

605-12756 w/77



206 385  
 158 129 337  
 LA 24 March

697	737	737	737
89515	12640	98089	93147
90495	12312	47439	91222
22229	93691	96312	96999
22132	95672	95551	95161
22125	92022	92372	95710
90697	98087	97650	91710
90725	16562	97167	96151
22342	96464	95277	14379
90746	12843	98902	
22419	94340	98909	
22278	95679	95230	
87002	98867	99196	
	99237	96861	
	98901	95437	
	92215	98792	
	93481	98033	
667	98071	95242	
39629	95493	47304	
37784	45894	90077	
	95661	45957	
	46011	97338	
	47452	98824	
757	12720	97519	
95469	95203	95274	
	47456	98922	
	95545	98786	
597	97010	96116	
50388	94497	10590	
	96134	97193	
	90882	99056	
	99461	95169	
	97228	91236	
867	98826		
	10730		

43 59 102  
 337 102  
 439 26  
 465  
 767-49458 - 500 → 659

767	767	767	587	587
54101	87117		91636	
47805	47864		91644	
46391	46465		91814	
51688	51962		91650	
49350	51971		91770	
51845	46488		91813	
46338	46490		91688	
47826	46492		66389	
47821	46499		91691	
87778	46443		91679	
51934	51989		91794	
47839	45345		91901	
47833	49347		91599	
47810	47610		85789	
71737	46401		91899	
47898	49348		85781	
45399			91522	
48972			91873	
49398			91605	
46317				
46387				
51833				
49302				
47883				
46466				
46462				
47956				
49305				
51900				
47943				
46863				



BFA

24 March

~~737~~  
~~92657~~  
~~97284~~  
~~99838~~  
~~97530~~  
~~97943~~  
~~99974~~  
~~98618~~  
~~91730~~

~~767~~  
~~46048~~  
92442

~~597~~  
~~84149~~

~~757~~  
~~77306~~

~~697 90062~~

25 March

RTTB

crew bands used - 645-12392 - 405

98 on egg

returns 615-10451

1400 count

435

BIP NAF 8:35

wind ESE

sky

moon 1st quarter

new bands used 943-89651-55

wind ~~SE~~ 14-17 ESE sky 30-35% cloudy

moon 1st quarter (end)

repeats

returns

88  
197

89  
198

87

753-32885 w/54

645-12023 w/85

Wedge tail new band  
16



25 Mar

LA

~~697~~  
~~22758~~  
~~22494~~  
~~22800~~

737 737 737  
96623 95320

92523  
91855  
95061  
96843  
99037  
95538  
96624  
38558  
95329  
11029  
97203  
90664  
92576  
97242  
93260  
96464 \*  
93415  
98269  
93109  
93677  
93861  
96664  
94317  
92978  
94279  
95173  
96979  
95343  
95074  
95355  
94211  
47018  
98271  
95319

~~667~~  
~~39481~~  
~~39302~~

~~757~~  
~~84115~~

~~597~~

~~887~~

25 Mar

767	767	767	587	587
47662			90972	
47675			91798	
47747			91528	
47673			91534	
46137			91729	
47761			91714	
47682			91725	
47681			91979	
49381			91736	
46285			72453	
47754			91721	
47666			91706	
46193			91996	
47758			91703	
47785				
46286				
47759				
46297				
46284				
47754*				
49452				
51980				
46110				
46117				
46324*				
47715				
49432				
46127				
46227				
45340				
47721				

Laysan new lands  
767-49660 - 49762

Accid. disc, BIP  
chick in SAF



# 26 March Shorebird Count

730 NWB RT18 GP2 S1

4 fairy terns

754 NPT. 38-45 gulls

1 seal

RT 2

757 WEB SRT 25 1GP

12 fairy terns

1 seal

817 RW 10RT 7GP

at least 8 fairy terns

850

# 26 March

## RFB Nest study area

returns : 767-46935

nest #

egg meas.

13

64.6 x 40.3

14

59.5 x 41.7

18

58.8 x 39.4

nest #8 has chick

## RTTB newband based 645-12407-410

07 Cen. Roost

Returns

08 nest study area

585-52215 Cen. R.

09-10 SEB

615-10139 nest. st. a.

-10284 "

6 seals on N. gl. 1600 hrs.



26 March

Sunset roost count N. tower  
sunset 1905 sky 98% cloudy wind ESE 12-15

G-F 18♂ 17♀ other ad. 7 imm. gl. tower 79

18 immat.

others 157

flying 8

RFB 3 sub. adults 155 adults

others 196

flying 25

~ 125 - 45 Sooties over N. Roost

~ 450 - 500 more over NEB

26 March

BIP SAZ 8:30

sky wind ESE 12-15

moon begins 2<sup>nd</sup> quart.

new lands 943-89656 - 67

56 no lett. leg

repeats

89

88

87

984

121

467

returns

903-15398 repeat

WTS:

61 (40 Sea Samples)

CIS 2



27 March

4 fairy terns in Casuarina trees  
behind shack 1300

1400 RTTB and 420 95% cloudy  
10 k wind E

BFB

#25 SAF ♀ 8.8.7 70.0 x 47.6  
♂ 6.4.9

#26 NAF ♂ 6.4.9 65.3 x 42.6  
♀ 10

#27 NAF ♂ 6.4.9 64.4 x 47.2  
♀ " " 6

#28 NAF ♂ 6.4.9 67.4 x 45.7  
♀ " 8

27 March

BIP nest 2 hatch (SAF)

BIP NAF 8:35  
new bands and 943-89668-677

repeats  
88 89 87  
619 121 596  
373

returns  
753-32697 w/74  
-33849 w/77

~~RTTB SAF~~  
~~615-10318~~



28 March

RTTB - return SAZ  
615-10318

♂ 16 red sp. 6

BIP SA 2 8:10

wind easterly 16-21 sky - 98% cloudy moon 2nd quarter  
light showers giving fair light through clouds.  
new bands used 943-89678-97

repeats

88	89
077	180
294	075
240	157
223	295 w
061	88
060	269
421	769
735	424
250	357
747	

87  
990  
434

89  
071  
472  
186

returns

903-15146 repl.  
15119  
793-20474 w/85  
20872 w/92  
903-03243 w/94  
repl.

28 March

WTS SAZ

705-12072-

635-16603 w/72

BB

587-52715 ♀ SAF



29 March

egg given to BIP nest I  
has hatched

Sunset ~~Count~~ count  
Radar reflector

sunset

sky 80% cloudy

wind 20-25 k. mostly

RFB subadults 2 <sup>cent pos. west pos.</sup>

others 191

flying 11

96  
8

GF ♂ 4

♀ 4

subadults, immat. 7

others

63

flying 4

29 March

CIS at least 5 seen

Circling SA2 + Scaevola  
between there + the beach

1 pair captured in thick Scaevola  
betw. SA2 + beach

new bands 705-12073 + 74

BIP d AF 830

new bands 943-59698 - 706

repeats

87

88

89

924

199

387

922

464

673

re turns

793-22362 w/99

793-03788 w/700

793-13027

793-20890 w/06



29 March

WTS new bands 705-12075-88

returns

635-16883 w/76

~~705-10996~~

635-16887 w/78

615-88250 w/80

635-16317 w/83

BB w/AF

returns 737-95817 ♂

737-45700 ♀

587-52715 ♀ prev. caught in SAF

Fairy tern newband 682-47321-22

21-Merscha. tree M. roost.

return

NEB 642-00188

22-Scarola NEB

30 March

CIS 1430 hrs. path in  
514-76739 M. roost

RTTB newbands 645-12411-15

SWB

SEB

11

16 (on egg)

12

13

635-16088

14

15

CIS

705-12089

SEB edge of Scarv.  
1630 hrs.

3 secls M. pt.

2 "

SWB

(egg missing)

1 "

SEB

} after noon



30 March

~ 100 Common noddies } N. pt.  
 ~ 35 grey backs } sunset  
 ~ 12 Brown boobies }  
 1 seal

Sunset Roost count North tower  
 sunset 19 sky 65% cloudy  
 wind 20-25 easterly

GF ♂ 26 ♀ 16 subadults 16 } in front  
 others } of tower  
 106 total  
 all others 164  
 flying 17

RFB adults 154 subadults 2 in front  
 all others 186 of tower  
 flying 16

30 March

BFB #11 has moved  
 nest site about 20ft  
 chick still ok

new nest

WAF 29

8.5pt. 13 67.1 x 46.8  
 14

#16 1st egg hatch

BIP SA 2 8:20  
 sky wind easterly 20-25  
 moon bright 2nd quarter  
 new bands 943-89707-714

reflects

87	88	88	89
986	043	753	047
	102	256	408
	422	114	567 w/
	160	385	690
	638		496 w/
	646		472

redwings

903-13184 rept.  
 15136 rept.  
 15119 rept.  
 15112 rept.  
 793-20473 w/13



30 March

SA2

WTS

returns

705-10859

repeat

new bands 705-12090 - 95

96 - 100 dropped in bushes

SA2

CLS new bands 705-12101 - 103

Sooty terns Cent. Roost  
returns

813-91343

903-17727

05663

new bands 943-89801 - 802

31 March

~ 40 Common noddies + 1 black  
noddy on NWB ~ 1045 hrs.

another flock of ~ 50 birds present  
on N. Pt. (same time) maybe 1/4  
were black noddies + rest were

common noddies. ~ 45 Sooty  
terns also present (no grey-backs)  
half a dozen or so Fairy terns flying  
around vicinity (4 also present  
around Casuarina trees behind shack)

Pair of CLS calling 1030 hrs.

RTTB

1400 count 500-520

Sky clear, wind 14-19 kts



31 Mar.

RTTB: new bands 645-124 ~~17~~ 18

SEB

Central Roost

GF: nests w/ eggs III

RFB (study area)

nests w/ eggs 12 ~~prev. meas.~~ (4 prev. meas.)

nests w/ chicks III 4 hatched 1 downy

new nests			
16	63.5 x 40.9	21	61.0 x 38.4
17	60.0 x 40.4	22	63.6 x 41.4
18	66.5 x 40.8	23	67.8 x 41.8
19	68.3 x 40.8		
20	63.8 x 40.3 (mate to old #23)		

nest 12 no egg  
5 chicks  
1 hatched  
#2 w/ chick  
#9 dead chick  
#22 where  
#10 was  
#4 w/ chick

(west portion)

nests w/ eggs III

nests w/ chicks II

prev. meas.

III

new

I III III

Return

737. 91968

31 Mar

North Roost

GF nests w/ eggs

(in front tower)

RFB nests w/ eggs ~~prev. meas.~~ +

( " )

GF nests w/ eggs

RFB nests w/ eggs 3

new

prev. meas.

nests w/ chicks



31 March,

BFB: #16 chick dead  
#4 has moved its chick about 4 ft.  
#13 2nd egg hatch

Bonin nest survey SAF  
8 chicks present  
no eggs

31 March

BIP WAF 8115  
moon bright end of 2nd quarter  
wind east 15-20 kts sky 3% cloudy  
new bands used 943-89715-18

repeats

returns  
903-13035

87	88	89
	971	374
	442	455
		196

BFA. 26

737	767	697	757	887
92632	94988	90138	93630	14429
98537	51781	22960		
97465	77096	73951		
97444	46059			
98661	93430			
98648				
98660				
99973				
99974				
99860				

new bands used 767-46072-77 / 6



LA ✓ 356

31 March

697	737	737	737	45971
22311	47003	99327	97949	93664
87705	98804	98717	98775	94030
96516	98973	95676	97045	92140
84649	99517	96749	98786	95199
02291	97130	99249	99345	97394
90419	97004	99298	95244	95178
90418	97212	95474	96434	91229
90417	97068	98820	98815	95217
90637	97939	97306	95257	92573
90668	96500	97413	95224	94270
90808	99365	97164	94658	97395
	91309	95184	97336	95402
667	96380	99335	97059	90778
42693	95641	99422	95586	95122
39711	97140	97051	97023	65374
35230	97118	97191	95459	98241
	99237	90903	98805	
	99428	97029	45955	
	15556	92372	97920	
	95545	92507	97322	
	91107	<del>92507</del> 7	98802	
	95665	93888	98887	
597	94535	97174	98446	
	17629	97647	95216	
	97007	96938	99445	
	92294	97260	94681	
	92339	99441	96752	
	95543	95430	98826	
	97116	99410	98849	
757	97114	47114	97937	
15082	16022	99286	97346	
95186	99456	98857	98734	
607 red	13515	99472	13096	
70933	15735	97060	95229	
	97360	99480	97372	
	99060	95264	98880	
887	98850	98927		

31 March

382  
total  
birds

767	767	767	587	587
46330	49621	46393	91578	
47611	49480	51966	85762	
45321	51835	54320	91754	
51998	51826	51978	91840	
47607	46320	46621	91560	
97241	46328	49340	64966	
46423	46325	51992	91653	
47854	51933	49346	91658	
46431	46458	49464	91777	
51913	48973	46334	51686	
49461	51825	45345	91870	
51867	46437	49347	91822	
46428	46323		91648	
49463	46445		91836	
51843	46459		91656	
47913	48984		91699	
51680	46383		91817	
51903	47942		91837	
46669	46469		91963	
46462	49636		91902	
48749	47954		91789	
49478	98206		91880	
47808	48996		91692	
51985	47955		91684	
49460	51958		91812	
49690	46472		91686	
47919	48999		91895	
47963	51953		91800	
46427	46477		91589	
46333	49964		91608	
51897	47966		66314	
46314	49766		91923	
	51957		57632	
new banded	767-49777-879			

no 50% of birds caught

253

103



1 April

~ 100-125 Sooties on N. pt.

1045 hrs.

3 flocks of noddies (mixed  
Common + black w/ Common pre-  
dominating) } SWB, NWB, N. pt.

3 seals N. pt. & NWB

C15 : pair located calling  
1100 hrs. in Scaevola by  
rifle range. 1 bird captured  
& banded, other escaped

705-12104

RTTB 1400 count 530-550

sky 20% cloudy wind easterly  
13-16 kts.

new bands 645-12419-21 NAF  
nest found in Cent. Roost.

1 April

Benin nest survey NAF

4 (c) ✓

6 (c) ✓

8 (c) ✓

9 (c)

11 (c) ✓

12 abnd

14 (c) ✓

15 (c) ✓

16 abnd

20 abnd

22 (c) abnd

23 (c) ✓

25 (c) ✓

27 (c) ✓

30 e ✓

31 (c)

32 (c) ✓

33 (c) ✓

35 e ✓

36 (c)

37 abnd

38 (c) ✓

39 (c) ✓



1 April

2<sup>nd</sup> egg  
#27 62.6 x 46.6  
28 61.6 x 44.9

#24 broke foreign egg

BIP SA2, 2020

moon begins 3<sup>rd</sup> quart. wind E 12-16  
sky < 5% cloudy

new bands used 943-89719-721

repects  
87

88  
083  
082  
578  
385

89  
314  
623  
410

returns  
903-15280 rept.

WTS newb. 705-12096-100

705-10539

CLS SA2 514-76685 w/ 705-12105

1 April

BFA (roosting)  
new bands 767-46078-

~~737 767 none 697~~

only 1 ad. present along  
NEB. (not caught)  
no roosting birds at M. pt

grey backs + noddies roosting on  
M. pt. 0130 hrs.



LA 1 April  
(roosting) antunna  
6 birds

697	937	95016
89052	96281	93641
88847	97107	95359
85012	15811	95639
03758	98965	95075
22638	92887	97230
22830	95134	95045
90932	95139	96734
22894	92526	92338
02198	13097	36227
	99347	11540
	95345	95042
	91212	98593
	47812	95035
	90040	95061
	95130	99028
	93445	96926
	95554	92515
667	95374	95088
	95798	95505
	95593	94456
	95347	95084
	97142	95010
	91895	10885
	95526	97009
	95320	95074
	95349	92544
	93572	14974
	95348	95058
	95111	95011
	95175	97222
757	95330	98599
18422	95122	95069
	97978	98592
	95068	92539
	92585	95106
	95060	92575
	97111	96724
597	96918	
50624		
887		

wind east 14-18 kts  
full moon

767	587
46134	91753
47802	91750
49651	91749
51891	91955
47740	91727
47622	91738
49725	91945
46653	91714
47623	91935
47726	91704
95629 mk	91985
46212	91731
47716	91988
51587	91991
47729	91738
47701	97003
46245	85814
47791	91538
49740	85811
51991	91534
46170	53372
47629	91529
51169	
46230	
46412	
49357	
46139	
46144	
46241	
46171	
46183	
46182	
46188	
47746	
46287	
47678	
new bands 767-49880-950/71	

230% of birds captured

168

total 237



2 April

1 seal, NWB

3 seals

flock (~50) of noddies  
(principally Common), ~ 75  
Sooties, 7 greybacks on N.pt.

1045

~ 25 greybacks near end of SEB  
(flying) 1100

RTTB newbands 645-12422-23  
RWo

SWB { bird prev. capt. here  
635-16095 (on egg)  
635-16197

newbands 645-12424-28

24 (on egg) 25, 26 Cent. Roost

27, 28 SWB

another egg on SWB where bird  
prev. capt. (band given in  
bird not read.)

2 April

BFB nest # 25 2<sup>nd</sup> egg 62.5 x 48.1

14 has broken other eggs

6 no longer incub. 2<sup>nd</sup> e

BTC present

BIP SA Facross from  
WAF study area 2 nests  
w/ chicks found 10 found  
empty

a few greybacks over M-roost  
area just prior to sunset  
large swirl of sooties



2 April

Sunset 1830 cont  
sky 40% cloudy wind east 12-17 kts  
sunset 1911

RFB subadults 2

others 171

all others 148

glying 26

} in front  
of tower  
+ area  
by path

GF 27♂ 18♀ 12 <sup>immature</sup> subadults and 1 in ft.  
all others 199 sex } g. tower  
89

glying 27

CIS pair in Scaevola  
on E side of road to  
trans. bldg.

2 April

BIP WAF 820

sky 25% cloudy, moon 3rd quarter  
wind easterly 13-15 kts  
new bands added 543-89722 26

repeats

returns

87

88

89  
200/w

793-21045/24

983

203

442

CIS

514-76691 w/ <sup>new band</sup> 106 ✓



# 3 April

## Shorebird count

	RT	GP	S	WT	BTC
7:37 SEB	10	3			
	(1 seal)				
7:57 S. pt.	4				
	(4 BB on rocks) (used w/ pup)				
8:00 SWB	5	4	1		
	(2 seals)				
8:15 NWB	3	2	1		
	(~5 fairy terns)				
8:27 M pt.	1	1	7		
	(2 seals)				
8:34 NEB	1				
8:43 RW	11	10			
-912					
7:35 Hgtz.	6	4			
9:12 SAF	15	9			
	incl. gr. stars				
9:24 WAF	20	7			2
9:35					

2 gulls, 1 fairy + several CN in S pt. area  
 a few gr. backs (gulls) 3 sitting w 50 Sooties (sitting)  
 + 70 Noddies on + around M. pt.

# 3 April

RTTB return - BFT  
 605 21004

CIS over SA 2 0905 hrs.

5 BB SAF 0915 hrs.  
 several in WAF

6 fairy terns along road to trans  
 6:45 0935



3 April

~~RTTB~~ RTTB 645-12367  
on egg SAF

RFB #17 1st egg hatch

Sunset Roost count Radar reflector

sky 100% cloudy, wind easterly 10-13 kts.

horizon obscured constant 1910

GF ♂ 7

und. sex.

glying 3

♀ 7

subadult + 9  
immature

west station 6 ad ♀

Cent west

RFB subadults

all others

glying 31

9

224

2

116

3 Apr

B P 5A2 820

sky wind E 10-12

moon

new bands used 943-89727-740

repeats

87

88

156

224

108

117

264

751

411

returns

903 15084

15284

793-21037 w/27

903-15307

13149

15340

15186

13175

83746 w/34

793 20627 w/35

903 15285



4 April.

BIP #35 has hatched

GF on ground in NAF

couple of BB in NAF

greybacks over NAF  
also 1 fairy tern

5 Apr.

Midway: Sand Is.

Fairy terns: eggs to chicks  
almost ready to fledge

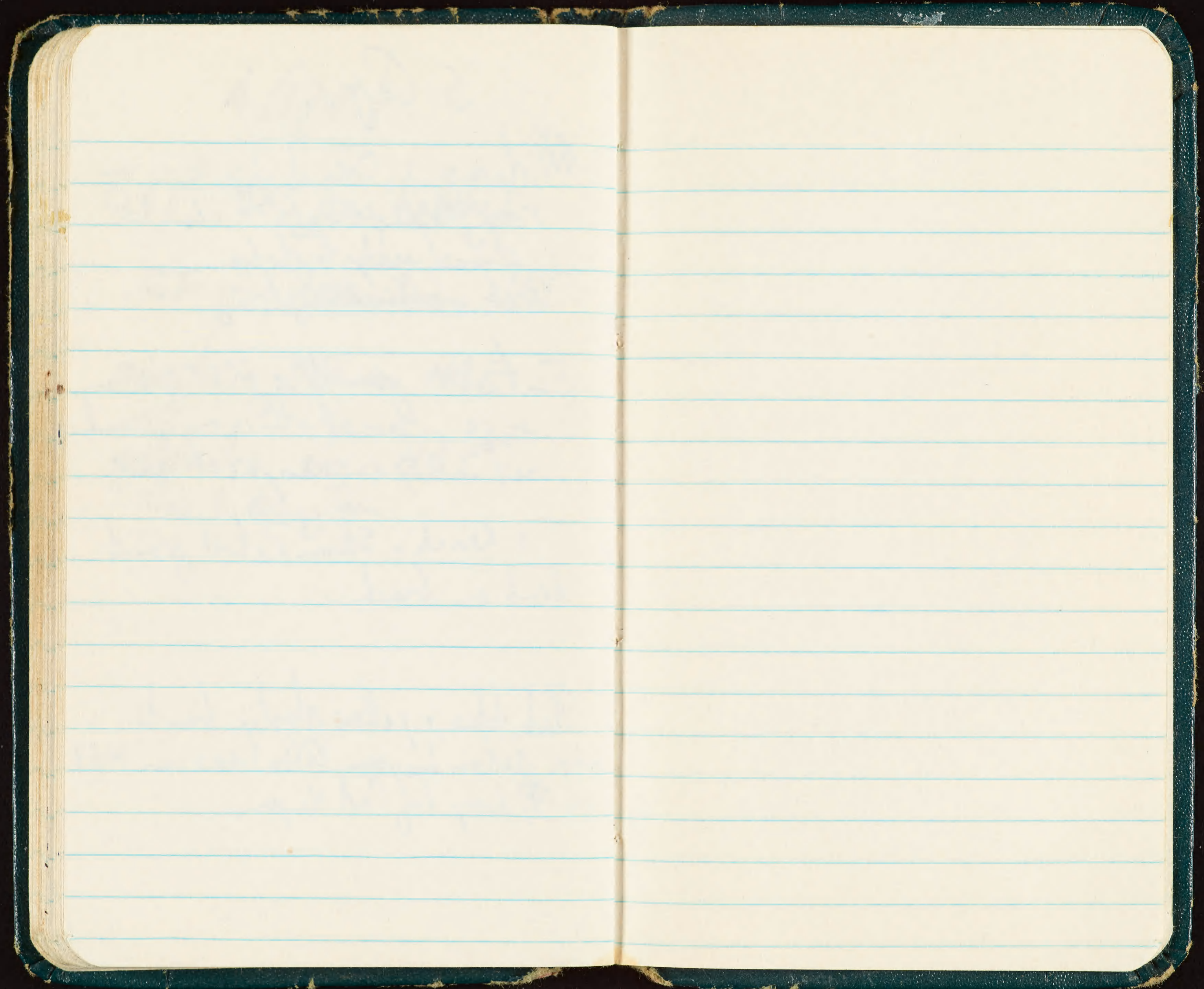
Black noddies nesting

Eastern: found 2 RTTB's on  
eggs, several others on ground  
not nearly as many as at Kure

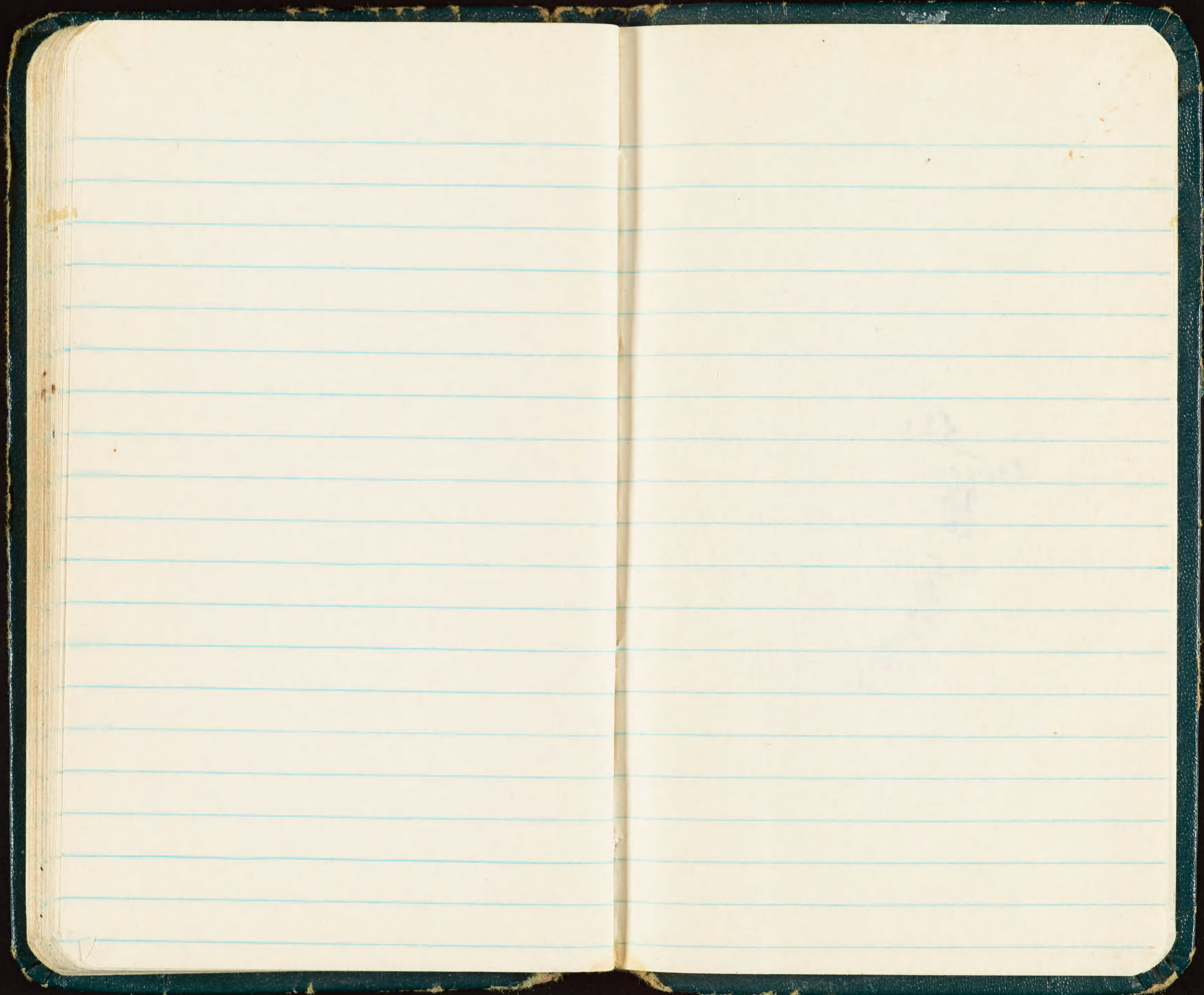
1 Leach's Storm Petrel found  
dead on beach ✓

Red, blue + yellow plastic bands  
were put on Laysan Albatross in 1957  
on Midway by Carl Kenyon











52.1  
23112.00  
92  
28  
115  
50  
46  
40  
23  
170







**7530-222-0078**  
**FEDERAL SUPPLY SERVICE**

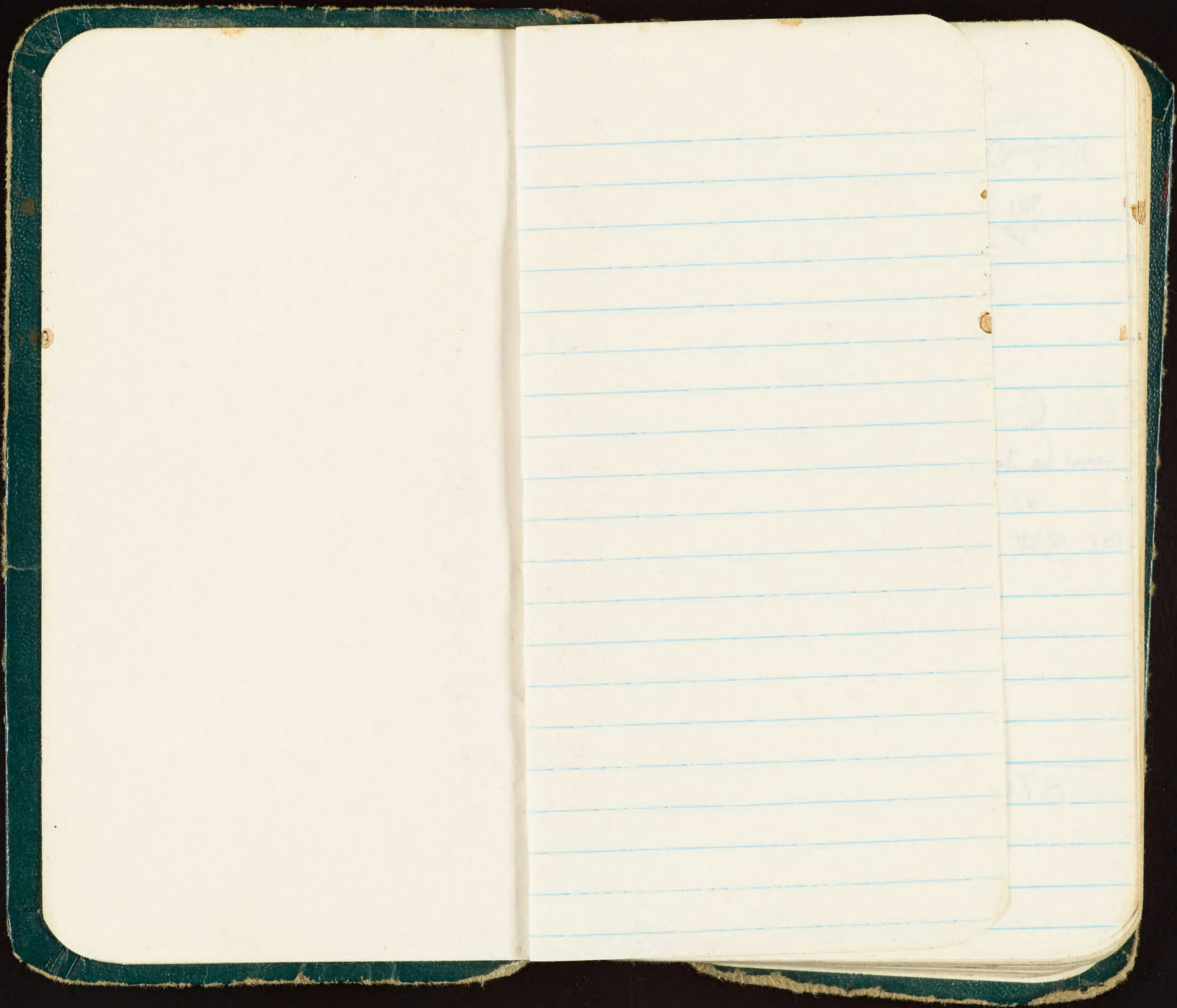


*Memoranda*

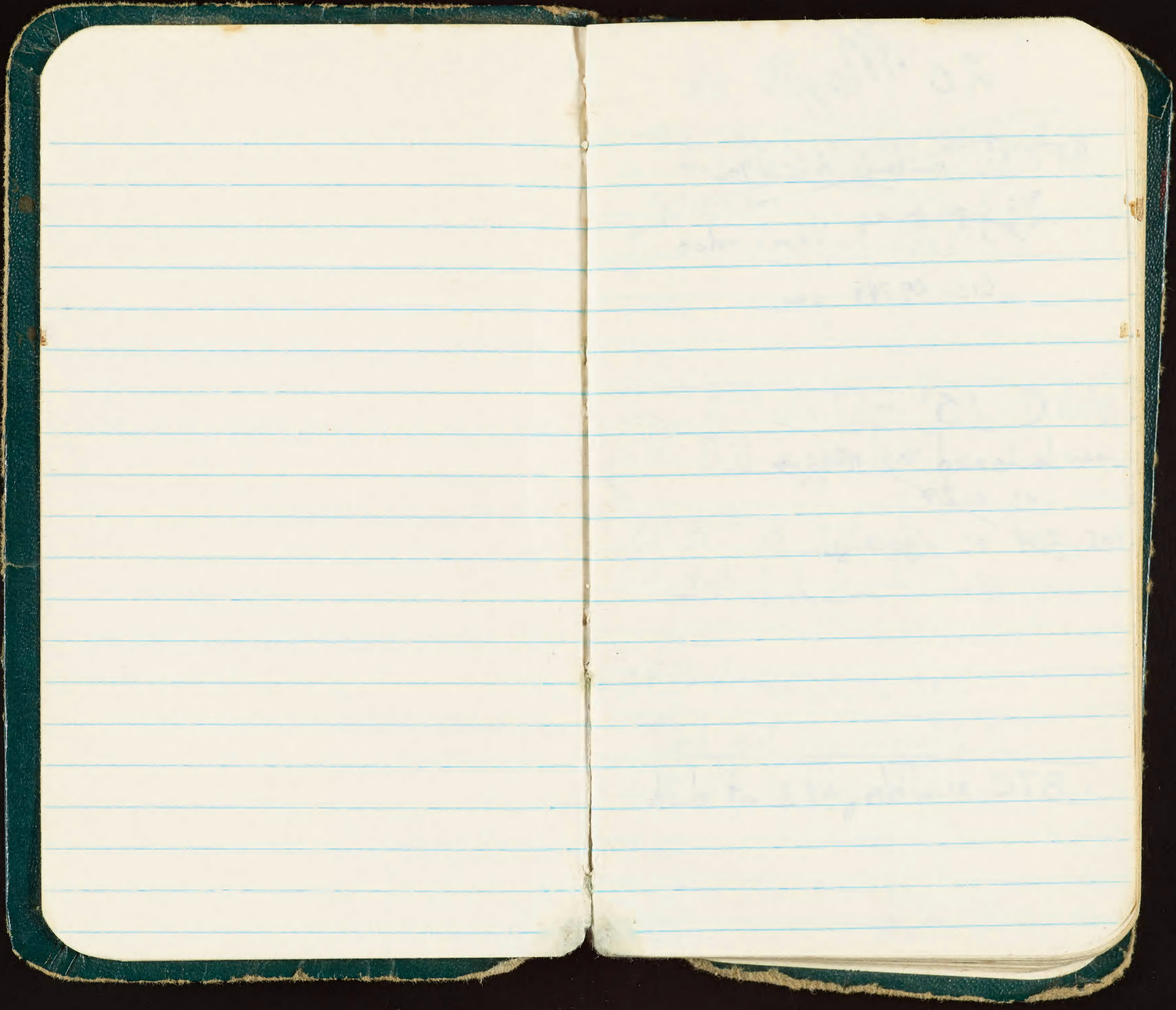














20 May

~~RTTB new bands 205-11906 →~~

~~906 } pr. or egg Vern's notes  
907 }~~

615-09749 oe.

C 15

~~new bands used 705-11943 →~~

~~43 no BP~~

~~705-12104 oe rifle range~~

1 BTC seen along NE B at dusk

20 May

~~SE Beach - Laysan Alb. nestlings~~

~~767-52301~~

~~Vern's notes~~

~~2<sup>nd</sup> chick from #25 given to RFB  
[1<sup>st</sup> BB egg hatch]~~

~~BFB # 19 3<sup>rd</sup> egg~~

~~2<sup>nd</sup> chick given to RFB~~

~~2 BFB chicks given to RFB~~

~~(red foot eggs infertile)~~

~~chicks 1+4 days old~~



20 May

Laysan Albatross

697  
89373  
87705  
88996  
90671 (gr. sl.)

737  
12040✓  
95682✓  
97144✓  
12970✓  
95662✓  
97108✓  
13515✓  
97126✓  
15374✓  
92599✓  
97119✓  
92565✓  
96312✓  
97174✓  
95181✓  
92560✓  
15735✓  
97175✓  
96785✓  
95453✓  
95261✓  
96760✓  
96799✓  
97323✓  
95656✓  
99489✓  
96752✓  
97342✓  
95221✓  
95406✓  
95197✓  
95153✓  
97370✓  
92557✓  
95568✓  
29019✓

737

667  
44978  
397856

597

757  
84515  
70797

20 May

Laysan Albatross

767

767

587

46404  
51901  
44987  
51697  
46356  
51848  
47842  
46428  
49463  
47824  
44906  
51936  
44941  
51935  
44810  
46387  
52012  
51696  
47882  
48982  
47941  
46460  
51946  
48990  
49633  
47954  
47897  
47958  
51941  
46477  
45334  
51961  
46480  
46488  
44955  
49329  
46386

49646

91572  
91867  
91808  
91806  
91827  
91840  
91763  
91790  
91789  
91588  
85806  
91902  
91800  
91893  
91599  
91911  
91873  
91725

100

mostly cloudy

wind 8-12 NNE

moon 1st quart.

~ 95% birds caught



20 May  
Black footed Albatross  
737 767

587

21 May  
Shorebird count

7:40 SWB GP spt. cl  
RT 4  
WT 1 (Bred. plum)  
seals 3 <sup>+1 in H<sub>2</sub>O</sup> pyps 2

8:00 Spt. GP cl  
seals 1

8:10 SEB GP cl spt.  
WT 1 (non-bred. plum)  
RT 1  
seals 1

8:35  
EN RW GP 5 (Hcl) (1 spt.)  
RT 10



8:37 TWSS GP cl.  
1

8:53 RWNS 9:20

21 May

Laysan nestlings BFT, RWNS.

new bands: 767-52401 → 474

469 → 470

401 → 426

BFT

SWB

463 → 468

RWNS

427 → 462

471 → 474

152 broken leg

83

RTTB newbands used 705-11946 →

615-10320 on egg

635-16144 } pr. (no egg)

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

pr. (no egg)

on egg

pr. on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

on egg

56 on egg

57 "

58 }

59 } pr. on egg

60 on egg

61 "

62 (pink)

63 }

64 } pr.

65 on egg

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82



21 May

Black foot all nestings

new bands used 767-52221 → 52300.

221 ~~RWNS~~ SEB

222 → 244 RWNS

245 → 300 SWB

Roosting BFA:

737

767

21 May

BFB S Ad. 2 yrs old? SAF

767-49551

dk. br. br. #3

767-51019

S Ad 1 y old NAF

dk. br. br. #1



21 May  
Laysan Alb.

697  
89698✓  
75567✓  
89052✓

737  
95687✓  
92556✓  
93587 nesting  
95373✓  
95383✓  
95167✓  
95063✓  
95677✓  
95175✓  
95111✓  
98021 (bl. sl.) nesting  
95014✓  
95061✓  
95338✓  
95099✓  
96482✓  
92530✓  
98147✓  
95706✓ (red plst.)  
95037✓  
95590✓

667  
39310✓

597

757  
84115✓

21 May  
Laysan Alba.

767  
47906  
49345  
49651  
44605  
49653  
47703  
49693  
46129  
52113  
44962  
47618  
46634  
49427  
49745  
49738  
46135  
44846  
46427  
46348  
44969  
49369  
47655  
47991  
46257  
49941  
47654  
46196  
49937  
44876  
49713  
44742  
49936  
46199  
49940  
52135  
49704

567  
91930✓  
91741✓ w/ 36  
91714✓  
91952✓  
91979✓  
91983✓  
91997✓  
85811✓  
85817✓  
91533✓



22 May

CIS SAR

new band 705-11966

egg meas. 53.2 x 39.8

mate 514-76679

rebanding w/ 705-11967

egg meas. 59.9 x 37.0 SAR

Ad. has old band

705 10941 egg meas 56.1 x 41.4 SAR

56.7 x 37.8  
514-76724

SAR

RITB new bands 705-11968

✓ 645-12366 gr. st. on egg SAR

68 on egg SAR

69 " " "

✓ 635-16155 " " "

70 " " "

71 " " "

22 May

MEB LA locals

767-52494 → 500

52573 → 74

M. pt. 767-52575

MWB 767-52576 → 600  
+2 52695 → 699

MEB BFA locals

767-52601 → 09

M. pt.

767-52610 → 14

MWB

767-52615 → 30  
+1

SWB  
767-52694 → 676

SWB  
767-52631 → 640



22 May

Sunset Roost count

Radon Reflector

sunset 1945

wind easterly 12-14 kts

sky 95% cloudy

Central portion

RFB SAd + I 9

others 135

total flying 15

GF SAd + I 25

others 62

flying 0

Western portion

RFB SAd + I 4

others 66

flying

GF SAd + I 0

others 1

flying

22 May

~~BIP SAF ✓~~

~~943-89931 chick about to fledge~~

~~32 kg " in burrow~~

~~33 Ad w/ 32~~



23 May

Sooty Terns

Sera samples

newbands 943-89934-57

returns

913-62280

903-18305

#39 was BP?  
no sample

21 48

22 46 ~~was bp~~

23 903-07982 " ?

24 49 " ?

25 793-20030 " ?

26 903-17551 " ?

27 903-08184 " ?

28 51

29 50 was bp

30 52

31 913-61882 was bp

32 53 bp

33 903-11796 bp

34 54 was bp

35 903-13992 "

36 903-05672 "

37 903-06407 defeathering BP

38 55 bp not was

39 56

40 57 was bp

1 903-04088

2 34

3 793-94610

4 773-18788

5 35 ~~was bp~~ ?

6 36

7 37

8 38

9 ~~bird died~~

10 40 bp not was

11 903-04409 bp

12 41 no bp

13 903-14341 ~~was bp~~ ?

14 42 defect. bp

15 43 ~~was bp~~ ?

16 813-91406

17 793-22185

18 44 ~~was bp~~ ?

19 45

20 47



23 May

~~SWB nestlings~~

~~BFA 767-52641~~

~~LA 767-52700~~

~~767-52675 → B68 X~~

~~Additional's 767-52667 + 66~~

~~NAF 767-52665 - B60~~

~~Additional's north roost 767-52659 → B48~~

~~RTTB 1400 count~~

205

~~high thin clouds 85% (sun shining) then~~

~~wind 8-12 kts easterly~~

~~new bands 705-11972 → 981~~

~~72 Ad. w/ sm. downy (grey) N. side Rd to tennis bldg.~~

~~73 " on egg NAF area~~

~~74 " " "~~

~~75 " " "~~

~~615-10461 " " "~~

~~76 " " "~~

~~77 " N. roost area~~

~~78 " on egg~~

~~79 " " "~~

~~80 " " "~~

23 May

CIS egg meas.

55.4 x 39.1

57.3 x 39.4

705-12065

~~RTTB cont~~

~~81 Ad. on egg north roost area~~

~~82 " " SWB~~

~~83 " " along road to pier~~

~~84 " " SAF~~

gr. st. SAF w/ grey chick

~~Fairy Tern~~

new

band 682-47396

no B.P.

ldg. w/ net

LA 767-52642 + 43 SWB.

644 → 647 additional's



23 May

Grey-backs new bands 882-47394 → 95  
793-94807 defec. BP?  
95  
94 sm. rising just hatched

egg meas. 45.2 x 33.0  
46.0 x 34.4

Grey backs

45.5 x 34.1 SAF

~~BFB #56 63.6 x 47.3~~

red br. red 5 SAd.

red br. red 10 "

#35 1st e. hatch.

#30 "

24 May

~~LA chicks (additional)~~

~~767-52143 - 144~~

~~BFB #36 2nd e. hatch~~

~~✓ #35 1st e. hatch~~

~~✓ #34 1st e. hatch~~

~~✓ 32 "~~

~~31 "~~

~~30 2nd e. hatch~~

~~767-48552~~

~~new SAd in SAF bl br. 5~~

~~46 br. br. 2 767-46099 bl. br. 3~~

~~3 767-49551 " 4~~



25 May

Sooty eggs

III III III III ... ~ 10000

eggs hatching

BFB

98576

red. cent.

~~SAF~~ 7

nest 56

rd. w. red. 5 present.

#36 2nd chick dead

#39 1st egg hatch

37

33

30 2nd egg had been placed inside  
nearly complete shell of egg #1 pipped today

31 chicks present

25 May

Sunset Roostcoast Radar Reflector  
Central Portion

RFB I + SAD. 13

others 167

glying 6

GF I + SAD 42

others 89

glying 3

West Portion

RFB I + SAD. 17

others 126

glying 7

GF I + SAD. 41

others 72

glying 5

Sunset 1949

sky 40% cloudy wind NNW 4-6 kts



25 May PWW

Sooty Terns on eggs

new bands 993-03001 → 03100 ✓

returns on eggs

Midway

773	793	903	913	943	863
19389	21553	06566	84204	87825	00294
	95280	17818	44165		07725
	96771	18933	80814		
	96392	15876	41493		
	95481	14994	46524		
	94046	18492	47968		
	20174	09307	98907		
	23637	08797	94521		
	96383	06269	75566		
		19275	66647		
		08972			
		15772			
		05609			
		04897			
		17444			
		04672			
		06441			
		08042			
		13801			
		19144			
		18486			
		06076			
		18729			
		17124			
		06594			
		07335			
		17448			
		16646			
		05694			
		15799			
		05753			
		05801			

813	903 (cont)
91673	05787 N6
91598	04801 N6
91934	14069 N6
	14986 N7
	08891 N6
	18152 N7
	06746 N6

65 returns  
39.4% banded



✓ 24 May

RTTB last clamp on SEB ✓

new bands 705-11985-1200

schedules

nest #	band #	status
1	86	oe
2	87	"
3	88	"
4	90	"
5	605-21052	"
6	635-21385	sm. white + grey
7	91	oe
8	635-16117	sm. grey
9	93	oe
10	94	oe
11	95	oe
12	96	"
13	97	"
14	98	"
15	635-16583	"
16	99	"
17	1200	sm. grey
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

→ 2 Cont

635-115423 pair  
89  
92

~~LA locals~~

~~new bands 767-52546 - 47~~

~~46 BFT~~

~~47 RW~~



26 May

BFB nest check

~~green circle present  
in BFT area tonight~~

~~1 Fairy Tern egg in CR  
has been sitting since 19 May~~

~~2nd grey back egg hatched~~

~~#57 1st egg blk spl red spl 3 ♂  
blk low blk spl 8 ♂  
54.5 x 43.2~~

~~#40 1st egg hatch~~

~~39~~

~~34~~

~~31~~

~~30~~

~~2nd egg hatch  
2nd egg hatch~~

26 May

Roosting BFA

767

737

697

667

757

~~none on SWB~~

~~none ERW~~

~~none M.pt.~~

~~grey backs heard on M.pt. late PM~~

~~BTR Local about to fledge  
943-89958~~

~~NFF for west pocket~~

~~Grey back sm. downy just hatched  
682-47390~~

~~Fairy Tern 682-47391~~

~~bare leg not vasculated  
in Mos. tree SE beach~~

~~band #92 lost  
#93~~



26 May  
 Roosting LA newlands  
 7 escaped Runway Areas Antenna fields (below lines)

667	90	437	95	97	587
<u>39717</u>			698	151	<u>91827</u>
			638	<u>314</u>	948
	91		273		930
			<u>703</u>		988
697			134		938
87002			321		985
93071	92		343		<u>71961</u>
06540	<u>252</u>		95349		9555
06812	592		131		
			169		
			325		
757	93		306		
			027		
			036		
			95016		
			541		

887	94	96	98
064071		623	594
			99
			050

90% caught

24473  
 16278  
 16763  
 17685

wind south west 6 kts.  
 sky: high thin clouds  
 moon in 2nd quarter

26 May  
 Roosting LA 5 escaped  
 newlands antenna fields none

44	46	48	51	52
<u>926</u>	<u>382</u>		913	<u>917</u>
838	189		811	<u>030</u>
852	154		801	141
677	443		<u>971</u>	077
801	253		587	
	295		840	
	267			
	293			

49  
 632  
 479  
 386  
 340  
346

730  
 894  
 350  
 914  
 397  
 739  
 910  
 706  
 672  
 381  
 389

45  
377

47  
 607  
 935  
 642  
 960  
 975  
782  
 810  
 717  
 664  
 732  
 615  
 675  
 081

96

Left bed M. Roost additional

767-52152



27 May

RTTB nest study area

newbands used 705-00901 → 13

- 18 615-10236 oe  
 19 635-21481 oe  
 20 01 "  
 21 605-21990 "  
 22 02 "  
 23 03 "  
 24 04 "  
 25 07 "  
 26 615-10250 "  
 27 615 10328 "  
 28 615 10260 w/sm. gr 28 05 oe (egg cracked)  
~~29 605-12692~~  
 30 06 "  
 31 605-12692 oe  
 32 09 oe  
 33 635 16104 "  
 34 lvs. downy, nslng  
 35 11 sm. downy, grey  
 36 615-10272 oe  
 37 635 16171 "

27 May

615-10300

635-21435 } pair  
 08  
 10

nest #  
 6 12  
 7 13

BFB

767-51026 ✓ SAd. 1yr old.

SAd

#38 1<sup>st</sup> e hatch



27 May

BB SAF 7 nests  
NAF 24

Sooty Terns on eggs or brooding chicks

new bands 993-03101 → 03200

returns on eggs or brooding chicks

773  
19766 4

793  
21543 5  
95497 4  
21597 5  
23667 5  
96650 4  
94088 4  
96654 4  
23641 5  
21371 5  
96354 4  
95703 4  
95557 4  
95235 4  
22397 5  
95766 4  
91074 4  
95432 4  
96642 4  
96175 4  
23597 5

943  
89868-  
87339 8 N  
87332 8 N  
87151 8 N  
89881-  
89891-  
89888-

count 89800's  
as unbanded

903	903	903
05390 N6	06572 N6	08386 N6
08468 N6	04344 6	04715 N6
17458 N7	11214 6	12714 6
16922 N7	16547 N7	17158 N7
17438 N7	05289 N6	17218 N7
11029 6	09087 N6	05240 N6
09834 6	06910 N6	07215 N6
06051 N6	17955 N7	19017 N7
09916 6	17285 N7	11700 6
09603 6	05562 N6	16428 N7
05527 N6	17150 N7	06253 N6
04183 6	14872 N7	12715 6
16322 N7	16307 N7	13501 6
18883 N7	13827 6	06939 N6
14591 6	19237 N7	17669 N7
07938 N6	18977 N7	08708 N6
04821 N6	14858 N7	05291 N6
05700 N6	16462 N7	07164 N6
17446 N7	06140 N6	08953 N6
18280 N7	17890 N7	09186 N6
06640 N6	04879 N6	13974 6
06284 N6	06454 N6	04762 N6
17410 N7	18224 N7	04440 N6
05496 N6	04866 N6	07422 N6
08642 N6	12971 6	04264 N6

27 May

Midway, Sooty terns returns on eggs

863  
07031 5

813  
91702 4  
91414 4  
91540 4  
~~91540~~  
91411 4  
91171 4

913 Midway  
68717  
95538  
50685  
69515  
45581  
77476  
90029  
70973

903

06844 N6  
05093 N6  
09801 6  
16993 N7  
05070 N6  
08490 N6  
18534 N7  
18994 N7  
06297 N6  
08523 N6  
16203 N7

128 returns

56.1% banded



26 Mar  
Sharebird count  
 rain

RTTB nest study area

new band 705-00914 - 20

nest #	band #	status
38	14	oe
39	635-16219	"
40	15	"
41	635-21327	"
42	16	"
43	635-16175	"
44	17	"
45	18	"
46	635-16105	"
47	615-10207	"
48	19	"

more rain

28 Mar

nest #

2 615-10299

11 20

BFB nest check

#42 1st e. hatch

#56 2nd egg

#43 1st e. hatch

#35 2nd e "

37 " hatching



28 May

BB

#				
10	2 eggs			
7	"			
11	1 "			
12	2 "	737-92439	♂	SAF
13	2	737-98234	♂	
14	2 "	737-45201	♂	
15	2 "	767-50701	♂	
16	2 "	737-45286	♂	
2	2 "	697-70686	♂	16 eggs on ground by nest
5	2 "	767-45905	♀	
17	2 "	737-92455	♀	
6	2 "			

SAF

28 May

Sunset Roost Count North Tower

Sunset 1949 <sup>count made at</sup> <sup>horizon</sup> <sup>observed</sup> sky high thin clouds  
wind was 13-16 kts. + scattered cumulus

In front of tower

GF SAD+I 8

others 34

flying 10

RFB SAD+I 10

others 118

flying 12

All other areas

GF SAD+I 69

others 158

flying 38

RFB SAD+I 11 (1 w/ orange streamer)

others 132

flying 10

many birds still coming in

32 GF nests in front of tower

1 chick visible

3 large RF chicks visible



28 May

\* 15 path in N. roost  
new band 705-00817  
depth BP.

Bright moon

29 May

Shorebird & seal census

SAF GP 1 (clear)

NAF

(3 pairs of CLS over N. Roost  
GP 1 (clear)

11 dets

R<sub>W</sub>

GP

clear

spotted

III

RT

II

NWB

6 seals

WRT

RT 8

WT 1

seals 2

GP 0

NEB

3 seals

SEB

WT 1

3 seals

S Pt.

WT 1

1 seal

SWB

RT 1

3 seals

2 pups

1 badly decomposed Sooty Shearwater  
on SWB (we've had several days  
of prevailing west winds)



✓ 29 May

CIS

8:20 AM pair captured in BFT area  
new bands 705-00818-819

forgot to look at BP's

5 GF chicks visible in Ag

M. tower this morning  
a diff. orange str. RFB also  
present

1 orange streamer SAd GF

RTTB

635-16116 rescued from  
lagoon

~~LA local~~

~~767-52153 RWSS~~

29 May

~~Fanning tern caught w/ nest  
behind lat~~

~~682-47389 de over feather. bp.  
88~~

RTTB nest study area

new bands 705-00921-27

21 Ad. on ground

nest #	band #	status
49	605 12693	oc
50	635 16103	"
51	615 10350	"
52	635 21329	"
53	615 10267	oc pipping
54	22	oc
55	23	oc
56	24	w/ sm. grey
57	25	oc
58	26	just hatched chick
59	27	oc
60	{645-124297 635-16109}	"



29 May

BFB nest check

#41 given 2<sup>nd</sup> chick from #31  
1<sup>st</sup> egg in 41 infertile (placed in #31)

19 3<sup>rd</sup> egg 67.3x46.1

#43 1<sup>st</sup> egg hatch

BB NAF

47 737-92977 ♀ 1e, 1 chick

18 2 eggs

6 697 70688 ♀ 1e, 1 chick hatch today

16 737-45229 ♀ 2e

19 697-70681 ♂ 2e

20 737-92975 ♀ 2e

3 767 45910 ♂ 1 chick, 2<sup>nd</sup> e pipped

21 697 70677 ♂ 2 eg. (1 broken)

22 767 45906 ♂ 2 eg.

23 767 51114 ♀ 1e

24 1e

29 May

BB NAF

25 737-96907 ♂ 2e

26 697 70696 ♀ 2e

27 737-92976 ♀ 2e

28 697 70925 ♂ 2e

29 697-70679 ♀ 3e

1 737 45244 ♂ 1 chick 1e

30 697-70928 ♂ 2e

9 2e



29 May

Sunset Roost Count Peter Redden

Central Portion

RAB Ad + I 14  
others 152

GF flying 7  
Ad + I 6  
others 42

flying 0  
Western portion

RFB Ad + I 13  
others 130

GF flying 6  
Ad + I 3  
others 12  
flying 0

sky 55% cloudy  
wind SW 7-12 kts  
sunset, horizon obscured  
count at 1949

more birds still coming in

29 May

BIP NAF

Ad. refeathered BP (in study area)

[ 753-32620  
943-89959 added to ] 943-89961  
Ad. refeathered BP

Local (entire study area) NAF  
943-89960



30 May

BFB nest duck

32 2nd egg hatch

44 1st " "

45 " " "

37 2nd " "

~~39~~

40

BB  
nest not # that was unatt. yet.  
is attended today

CIS path in N. Roost

514 76711

no bp

30 May

Sunset Roost Count North Tower

In pt. of tower

RFB SAd + I 3

others 109

flying 12

GF SAd + I 2

others 32

flying 6

Other areas

RFB SAd + I 9

others 142

flying 10

GF SAd + I 3

others 79

flying 4

streamer still present

orange

RFB w/



31 May

Sooty Terns

Sera samples

- |    |                          |    |                   |
|----|--------------------------|----|-------------------|
| 1  | 62 bp NV                 | 19 | 943-80647 bp NV   |
| 2  | 63 bp <sup>3/4</sup> hve | 20 | 793-22491 ref. bp |
| 3  | 64 bp NV                 | 21 | 903-14232 bp V    |
| 4  | 773-18639 bp NV          | 22 | 903-12730 bp NV   |
| 5  | 773-19889 bp NV?         | 23 | 72 bp NV          |
| 6  | 65 bp NV?                | 24 | 75 bp NV          |
| 7  | 903-16388 no bp          | 25 |                   |
| 8  | 863-19426 ref. bp        | 26 |                   |
| 9  | 66 ref? bp               | 27 |                   |
| 10 | 793-94235 bp NV?         | 28 |                   |
| 11 | 67 no bp                 | 29 |                   |
| 12 | 68 no bp                 | 30 |                   |
| 13 | 773-18665 bp NV          | 31 |                   |
| 14 | 793-96434 ref. bp        | 32 |                   |
| 15 | 69 bp NV?                |    |                   |
| 16 | 70 bp NV                 |    |                   |
| 17 | 71 no bp                 |    | newlands used:    |
| 18 | 903-08356 bp V           |    | 943-89962 → 75    |

~~no samples~~

- |                      |                    |
|----------------------|--------------------|
| <del>793-95472</del> | <del>bp NV?</del>  |
| <del>903-17084</del> | <del>bp NV?</del>  |
| <del>943-87231</del> | <del>bp NV</del>   |
| <del>903-16764</del> | <del>bp NV</del>   |
| <del>73</del>        | <del>no bp</del>   |
| <del>74</del>        | <del>ref. bp</del> |
| <del>903-16280</del> | <del>bp V</del>    |

RTTB 1400 Count

287 with NNW 14-18 kts  
sky 7% cloudy



31 May

North Reef

RFB nest count

An. gl. oyst. 62

other areas 68

GF An. gl. oyst. 34

other areas 62

orange star GF Imm. present  
+ RFB still present

Radar neglect

GF 15

RFB (Central portion) 82

(west portion) 66

count from  
(neglect. +  
sand dunes)

31 May

BFB nest check

34 2<sup>nd</sup> e. hatch

37 " chick dead

47 1<sup>st</sup> egg pipped

57 2<sup>nd</sup> egg laid

46 1<sup>st</sup> es pipped

BB

nest #

29 ✓ 737-45294 ♂

25 ✓ 737-92980 ♀

26 ✓ 737-45228 ♂

21 ✓ 737-92438 ♀

3 ✓ 737-95944 ♀ (2<sup>nd</sup> e. hatch)

4 ✓ 737-92441 ♂

6 ✓ 767-47343 ♂ (2 chicks)

2 ✓ 737-98001 ♀

5

1 chick

15 ✓ 737-92454 ♀

9 in WAF 04-22

unmarked 2c



RFB new bands used 747-50786 → 70

nest contents 737 45378 "  
737 92827 "

767- 54917 n  
737 92923 n  
767- 51661 nestling  
66 u  
67 u  
68 y  
69 u  
70 u

G-F new bands used 767-49553-75

nest contents				72	♀
eggs	nake to	son. down	med	1/2	Ad. ♂
HTT	HTT	HTT	HTT	HTT	HTT

74 Ad ~~nesting~~

767-51562 Ruffs head band  
changed to other  
log

767-54953 Ad ♂ nesting

75 Ad ♀ "



31 May

CIS pair on egg  
north roost

705-00820-21

1 June

BFB nest check

46	1 <sup>st</sup> egg hatched	30	2 <sup>nd</sup> chick given
38	2 <sup>nd</sup> "		to 37
39	2 <sup>nd</sup> egg hatch		
41	" "		
47	1 <sup>st</sup> "		
34	2 <sup>nd</sup> chick dead		
32	" "		



1 June  
Sunset Roost count Radar-ryketa  
Central Portion

RFB SAd + I 28

others 160

flying 23

GF SAd + I 3

others 57

flying 2

Western Portion

RFB SAd + I 13

others 97

flying 6

GF SAd + I 1

others 2

flying 2

sunset: 1950

sky: 35% cloudy

wind: NE 11-14 kts

2 June

Fairy tern in tree behind lab.  
~~682-47387~~

RTTB nest study area

nest # band status remarks 705-00928

1 28 oe

116 (61) 29 oe cracked

20 615-10203 oe

19 615-09001 oe

44 635-16216 188 Pipped

45 615-10248 oe

46 635-16173 "

117 (62) 645-12408 "

58 635-16705 sm grey

57 635-16764 oe

118 (63) 615-10141 "

53 635-16507 mt. sm grey

49 635-16172 oe

50 615-10368 "

119 (64) 605-21219 "

120 30 + 31 empty



2 June

RTTB 1400 count  
 ~ 340 sky < 5% cloudy  
 wind NE 11-14 kts

BFB nest check

35 only 1 chick 48 1<sup>st</sup> egg hatch  
 40 2 chicks  
 39 1 chick  
 37 2 "  
 32, 33, 34 1 chick (44) 1 chick  
 (45) "  
 41 1 chick

pairs deg. territories  
 SAF blk spt. 8 + red spt 3  
 " " 1 + blk spt 54  
 red bar, red 8 + gr. spt 9  
 NAF red spt 8 + blk bar red sp 8  
 2 blk h. blk, 1 blk bar blk 14

about 15 escaped newlands 2 June  
 LA roosting Runway areas

667	737	95	99	46	767	37	949
44978		699	643	134	488	903	949
35230 (bl. pl. ms)		687	221	428	118	848	971
39616		500	196	661		852	980
39785	90	483	394	336		995	
	231	465	169	47		833	
	91	474	199	612		700	
		291	803	901		946	
697		288	703	821		52	
90810		292	170	967		017	113
		459	470	48		018	051
		445	658	970		093	
		235	605	975		012	
		239				106	
		574					
		439					
597	92	96	45			587	
591		784	399			91	
						572	
						777	
						870	
						796	
						794	
						888	
						680	
						800	
						902	
						599	
						602	
						921	
						595	
						753	
						811	
						85	
						762	
887		383					
	94	98	49				
390	440	563	622				
091 (gr. st.)							
12040	15681	15935	13586				
14745	11994	15229					

134



2 June

~~767 45537 RFB roosting~~  
 Roosting  
 BFA 3 escaped  
 737. 93760 blk st. (whit. rump)  
 597 84124 " "  
 767 52199 newband blk rump  
 667 39094 blk st. whit "  
 737 45241 " " "  
 697 90044 " " "

moon 2<sup>nd</sup> quarter (visible only  
 during last half hour of survey)  
 sky < 5% cloudy  
 wind NE 5-7 kts.

3 June

BFB nest check

#37 foreign chick dead

45 2<sup>nd</sup> egg pipped

~~41 2<sup>nd</sup> chick dead~~

new bands 943-89976-86

25

BIP 22 + 29 seen on og barrows  
 tonight

newbands 945-89976 NAF 77 study area locals

BFB 83 78+79  
 80+81+82 " 84+85, 86

SAF red bar red 10

~~6 bar 6. 1 + 6~~

SAF BB

7 737 45202 ♂

10 587 85182 ♂

32 737 95815 ♂

33 217 93135 ♂

20882 1<sup>st</sup> nest conc.

20880 4<sup>th</sup> nest

1-880 new nest



# 3 June Roosting L A Antenna fields

667	90	937	98	587
35370	009	95	599	91
39324	004 80	117		948
	704	337		935
	91	355		721
	457 85	677		495 85
	943 85	132		531
	428	175		
		063	99	
		103		
697	92	538		
88395	525	602		
81385	646	094		
		016		

757 93

597 94  
221 85

887

94

97

17025 14974 10175  
11293 10634 11540

for weather see  
2 June

new bands 767 52158-

about 12 escaped

767

44	46	47	49	52
961	637 85	723	730	064
673	121	635	671	078
671	638	732	697	067 85
837	260	801	910	
940	348	630	421	
677	189	780	738	
843	308	631	739	
876			920	
725			714	
861			678	
			945	

48

50

45  
368

51

CT5 north-roost  
514-76692 no BP

BFA

937-45602 blk. st. wht. ring

Fanny + 682  
862-47386 newband  
north-roost



4 June

# Shorebird & Seal Census

NAF GP 1 clear

RT 6

Ndg

SAF

RW GP III clear 11 spot.

RT III

NEB

RT III

Seals 3

NPI

WT 2

seals 1

NWB

RT 3

SWB

RT 1

seals 2

pups 2

SPI

1 seal

SEB

RT 1

seals 3

4 June

~~BB #13 chick~~

BFB

767-52200 S. Ad. prob. 2 yr. old

SAF

~~61 bar 61 spot. 7~~

orange st. Sooty Tern

BFB nest check

~~40 2 chicks~~

~~39 1 "~~

~~45 2<sup>nd</sup> egg hatched chick expelled~~

~~♀ 767-51017 S. Ad. NAF~~



4 June  
Sunset Roost Count North Tower

Length of tower

GF SAd + I 4

others 36

flying 7

RFB SAd + I 2

others 115

flying 3

Other areas

GF SAd + I 63

others 224

flying 15

RFB SAd + I 18

others 157

flying 5

Sunset 1950 horizon obscured

sky 100% cloudy

wind N 10-13 kts.

4 June  
2 A sea samples

band #

- 1 737-95528
- 2 587-91740
- 3 697-83242
- 4 767-46121
- 5 767-46338
- 6 737-95775
- 7 767-44632
- 8 767-48975
- 9 59
- 10 737-95784
- 11 767-46460
- 12 767-47941
- 13 737-95281
- 14 737-92591
- 15 767-46428
- 16 737-96007
- 17 767-44899
- 18 737-93539
- 19 767-51848
- 20 767-46118
- 21 737-95559
- 22 767-49735
- 23 737-14745
- 24 767-47612
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32

697-90528 no sample

new bands 767-52159

Fairy Tern Biltmore area  
682-47385 no bp



5 June

RTTB 1400 count 280-300  
sky < 5% cloudy  
wind 3-5 kts. NE

Fairy Tern behind lab  
~~682-47384~~ newband partial bp  
SAB. bl sp. 5 parent

BFB nest check

~~47~~ 2nd e. hatch

~~45~~ " chick dead

~~767-51020~~ SAB. ♀ NAF  
return

BB

<del>34</del>	<del>1st egg</del>	<del>27</del>	<del>1 chick</del>
<del>5</del>	<del>2 chicks</del>	<del>35</del>	<del>1 egg</del>
<del>6</del>	<del>" "</del>	<del>36</del>	<del>2 eggs</del>
<del>25</del>	<del>1 chick</del>	<del>37</del>	<del>2 eggs</del>

5 June

~~BIP locals #17 in SAF~~

~~new bands 943-89987-93 locals SAF-  
95+96, 97, 98, 99, 00~~

~~SAF Ad 793 21073 943-89994  
adde~~

~~NAF locals from SA #29  
newbands 983-03201-03 locals SA outside~~

Fairy Tern  
newbands behind lab ~~682-47382-83~~  
no bp



6 June

gr. st. RT still present

SAF B Boobies

7 737-98237 ♀ 1 chick today

32 737 45227 ♀

13 1 chick

12 587-52715 ♀

NAR

34 737 92456 ♀ (♂ X)

37 737 98168 ♀

20 737 92983 ♂

35 767-51104 ♀

31 737 45207 ♀ 1 egg

1 697 70675 ♀

6 June

BFB nest check

47 2 chicks

48 2<sup>nd</sup> egg hatch

Sunrise Roost Count Radar Reflecta  
wind 13-16 k w Central portion sky 85% cloudy  
1952

RFB SAD + I 19  
others 192

flying 8

GF SAD + I 25  
others 95

flying 5

Western portion

RFB SAD + I 30  
others 165

flying 23

GF SAD + I 45  
others 57

flying 21



6 June new bands  
767-49576-85

GF

band #	status	sera #
96	whit. hd., whit breast + thr.	1
767-49529	SAd I (whit belly + hd.)	4
77	A ♀	6
78	SAd II	7
79	SAd ♀	8
80	SAd II	11
81	A ♀	12
82	SAd I	13
83	SAd between II + III	14
84	SAd I	24
85	A ♂	25

6 June new bands  
747-50771-83

RFB

band #	status	sera #
767-46919	Ad	2
71	SAd. brown	3
747-50753	SAd. br.	5
767-50741	SAd br + wht	no sang
72	Ad	9
767-50968	SAd br.	10
73	SAd wht. br.	15
737-59771	SAd wht	16
74	SAd bet wht-br + wht	17
75	SAd wht-br.	no sang
767-50735	SAd wht-br.	18
76	" "	19
77	SAd br.	no sang.
78	Ad ♂?	20
<del>band not read</del>	SAd wht	21
79	SAd br.	22
80	" "	23
767-50779	SAd. bet br. + wht br.	26
81	SAd. br.	27

767-51703	SAd. br.	757-43160	SAd. br.
83	" "	737-45307	Ad
82	" wht br.	737-96869	"
767-51722	SAd. br.	737-92497	"



6 June

~~BFB SWB~~

~~46. 6. 6. 3~~

~~66. 6. 6. 8~~

~~red circle 767. 49600 5Ad. 2 yrs old?~~

7 June

new bands 705-00932-35

~~RTTB~~

~~study nests~~

<del>nest #</del>	<del>band #</del>	<del>status</del>
<del>116 (61)</del>	<del>32</del>	<del>e</del>
<del>34</del>		<del>lost</del>
<del>41</del>		<del>"</del>
<del>3</del>		<del>"</del>
<del>7</del>		<del>"</del>
<del>43</del>	<del>635-21400</del>	<del>egg hatching</del>
<del>65 121</del>	<del>33</del>	<del>egg</del>
<del>66 132</del>	<del>635-16777</del>	<del>egg</del>
<del>67 123</del>	<del>615 10373</del>	<del>"</del>
<del>42</del>	<del>34</del>	<del>"</del>
<del>5</del>		<del>lost</del>
<del>6</del>		<del>"</del>
<del>69 124</del>	<del>635-21325</del>	<del>egg</del>
<del>36</del>	<del>615 10308</del>	<del>"</del>
<del>69 125</del>	<del>35</del>	<del>"</del>

1 GP (chew) NAF

5 RT + 7 (6 chew, 1 sp) GP  
on RW

5 RT (incl. ge. st. in SAI) 1 cl. GP



7 June

~~767-52198 LA local SAI-  
additional~~

~~BFB nest check  
# 46 2<sup>nd</sup> e. hatch~~

~~56 2<sup>nd</sup> egg meas. 59.9 x 46.0  
57 " " 65.0 x 41.0~~

7 June

BFB egg meas.

10 61.4 x 40.5 + 64.6 x 39.4

11 66.8 x 41.8 (1<sup>st</sup> egg)

7 57.3 x 42.0 (2<sup>nd</sup> egg)

12 64.9 x 42.0 + 65.9 x 40.7

13 62.3 x 42.8 (2<sup>nd</sup> egg)

14 ♀ x 56.9 x 41.5 + 59.6 x 41.8

32 58.7 x 42.2 + 55.5 x 40.8

33 64.2 x 43.0 (1<sup>st</sup> egg)



✓ 7 June  
Sooties on eggs or brooding

863

903

813

<del>11431</del>	<del>16753</del>	<del>06345</del>	<del>16175</del>	<del>91525</del>
<del>08869</del>	<del>18014</del>	<del>06379</del>	<del>17609</del>	<del>91828</del>
<del>14082</del>	<del>18556</del>	<del>08374</del>	<del>17475</del>	<del>91818</del>
<del>07324</del>	<del>14396</del>	<del>06052</del>	<del>16373</del>	
<del>16150</del>	<del>15552</del>	<del>08875</del>	<del>15079</del>	
<del>18865</del>	<del>11427</del>	<del>07014</del>	<del>13668</del>	
<del>11291</del>	<del>17684</del>	<del>07261</del>	<del>19048</del>	
<del>06100</del>	<del>18228</del>	<del>08785</del>	<del>11509</del>	
<del>16207</del>	<del>18807</del>	<del>07527</del>	<del>11070</del>	
<del>07331</del>	<del>17707</del>	<del>06173</del>	<del>16368</del>	
<del>08878</del>	<del>16818</del>	<del>07076</del>		
<del>05759</del>	<del>17560</del>			
<del>07718</del>	<del>11402</del>			
<del>06673</del>	<del>18810</del>			
<del>06291</del>	<del>19178</del>			
<del>04506</del>	<del>18281</del>			
<del>06278</del>	<del>17479</del>			
<del>07260</del>	<del>15748</del>			
<del>05373</del>	<del>16455</del>			
<del>08754</del>	<del>18020</del>			
<del>06714</del>	<del>11536</del>			
<del>05779</del>	<del>18962</del>			
<del>08833</del>	<del>17231</del>			
<del>06134</del>	<del>17044</del>			
<del>07585</del>	<del>18034</del>			
<del>09816</del>	<del>19324</del>			
<del>06766</del>	<del>16686</del>			
<del>06158</del>	<del>14926</del>			
<del>09723</del>	<del>11015</del>			
<del>05170</del>	<del>18301</del>			
<del>09775</del>	<del>12774</del>			
<del>08845</del>	<del>14822</del>			
<del>09862</del>	<del>16035</del>			
<del>07770</del>	<del>14526</del>			
<del>05095</del>	<del>16128</del>			
<del>05253</del>	<del>18461</del>			

773

19789

chicks

Midway

913

~~28111~~  
~~49107~~  
~~40867~~  
~~89557~~  
~~52691~~  
~~59377~~  
~~60677~~  
~~99057~~  
~~62935~~  
~~79148~~  
~~87003~~  
~~92125~~  
~~64519~~

new bands 923-03301-03500

Johnston

793

753

943

<del>95466</del>	<del>29203</del>	<del>87833</del>
<del>94671</del>		<del>87031</del>
<del>96802</del>		<del>87002</del>
<del>96873</del>		<del>87107</del>
<del>94869</del>		<del>87645</del>
<del>95610</del>		<del>87668</del>
<del>20106</del>		
<del>96658</del>		
<del>96632</del>		
<del>23670</del>		
<del>21559</del>		
<del>24855</del>	Midway	
<del>20012</del>		
<del>20120</del>		
<del>23698</del>		
<del>23553</del>		
<del>21651</del>		
<del>95754</del>		
<del>96418</del>		
<del>96664</del>		



8 June

~~RTTB 1400 count~~

~~N 225 wind NE 14-15 kts~~

~~sky 70% cloudy~~

NAF

BFB 737-99601 ♀ return

~~46 2<sup>nd</sup> chick dead~~

~~48 2<sup>nd</sup> chick dead~~

6 RT in SAF

1 GP (clear) in NAF

9 June

~~RTTB 1400 count~~

~~N 320 wind E 18-19 kts~~

~~sky 20% cloudy~~

Sooty Tern egg measurements

55.9 x 34.9	58.2 x 34.5	51.4 x 35.7
51.4 x 35.9	50.0 x 32.3	52.4 x 36.3
52.0 x 35.4	50.6 x 35.4	52.7 x 37.8
51.4 x 35.0	54.3 x 34.1	49.9 x 34.9
51.5 x 36.2	48.9 x 35.0	51.5 x 36.3
54.4 x 32.6	51.8 x 37.5	51.6 x 35.5
49.9 x 35.0	50.0 x 34.6	54.1 x 35.6
50.1 x 36.0	51.8 x 37.0	51.7 x 34.2
50.6 x 35.0	54.0 x 40.4	50.8 x 35.4
49.6 x 35.3	50.4 x 34.8	49.5 x 35.6
47.9 x 36.7	52.0 x 37.0	48.2 x 35.7
53.0 x 34.8	52.9 x 36.8	53.2 x 35.5
49.0 x 36.0	51.3 x 33.9	55.7 x 35.8
49.5 x 36.7	51.6 x 33.3	52.7 x 35.9
49.6 x 33.2	50.4 x 35.7	50.0 x 35.2
51.4 x 34.8	54.0 x 36.0	48.0 x 34.3
52.8 x 34.9	50.0 x 34.5	49.3 x 34.3
54.0 x 35.2	51.9 x 36.8	47.3 x 33.1
50.9 x 36.7	50.6 x 36.9	50.2 x 35.0
52.0 x 35.4	50.0 x 35.0	49.0 x 34.4
49.5 x 37.0	54.1 x 33.5	51.9 x 34.9
56.6 x 33.9	50.5 x 35.6	50.1 x 34.6
47.4 x 36.1	49.5 x 34.3	52.7 x 37.0
54.1 x 34.3	51.1 x 35.2	47.8 x 34.3
52.3 x 35.4	52.7 x 35.7	52.8 x 36.0



9 June

BFB nest check

~~47 2<sup>nd</sup> chick dead~~

~~28 chick dead~~

~~WAF 767-50916 ♀ (?) return~~

~~bl. bar, bl. spl ♀~~

1 drk phase WeTail over WAF

BB

~~13 767-50703 ♀~~

~~18 737-45424 ♂~~

~~9 767-51103 ♂~~

~~34 2<sup>nd</sup> egg~~

RF nest ~~that~~ contained  
BF chick aband.

Ab. RF w/ green st. seen today

9 June

BB egg meas.

18 64.0 x 42.2 + 62.3 x 42.1

17 60.8 x 41.0 + 59.9 x 42.2

2 65.2 x 42.3 + 63.2 x 40.9

16 64.1 x 43.2 + 66.3 x 44.1

15 64.3 x 41.4 (pipped) 1 chick present

19 63.9 x 40.9 + 63.3 x 44.6

20 65.0 x 43.5 + 63.9 x 42.1

9 60.8 x 44.0 (marked 04.22) 1<sup>st</sup> chick today

~~CIS path north roost~~  
~~new band 705-00822 defeathering b.p.~~



9 June  
Sunset roost count North Roost  
SS 1952 sky 10% cl, wind 12-15 E  
sh. pt. of tower

RFB SA + I 13

others 143

fly 5

GF SA + I 4

others 35

fly 4

All other areas

RFB SA + I 28

others 173

fly 15

GF SA + I 108

others 288

fly 12

9 June  
B. FA. Roosting  
new bands: none

returns none on RW areas

fly 737 92423 U. sl. wht ang.

CN return  
793. 94910 no bp

LA local RW SS  
new band 767 52197

RFB 767- 51377 SA wht. br.  
767- 51634 Ad prob. rgt.

BFB SA + I? 767- 52196 new band  
SA + I wht. br. red 11 U. br. U. 7 present  
red 10



9 June  
L.A. roosting

737

sky 10% cloudy  
wind E 12-15k  
moon

587

667  
3936355

90  
004  
60085

95  
684  
134  
106  
343  
660  
141  
306  
036  
267

98  
590

91  
54685  
40285  
432  
595  
51385  
46385  
905

91  
14285

99  
052  
050

697  
9078985  
9079185

92  
592  
544

96  
39985

597

93  
364  
437

85

94

97  
015

757

887

737  
15582  
24473

14937

9 June new bands  
L.A. roosting 767-52160-61

767

44  
987  
901  
690  
751

46  
428  
488  
105  
197  
253  
295

48

50

51  
811  
700  
971  
17385

47  
838  
801  
736  
679  
780

45

49  
329  
345  
747  
353  
433  
916  
941  
392  
672  
711  
706

52  
068  
141

above lines always  
below, antenna fields



9 June

~~BIP locals SAF~~

~~993-03204-06 + 09~~

~~Q7 flew } Immature?  
Q8 " } locals~~

#19 seen in WAF  
new path outside SA

CIS

~~514-76741 rpt.~~

~~76741 rpt. nobp~~

~~76709 rpt.~~

~~76737 rpt.~~

~~path in M.R~~

~~bare bp  
" "~~

NEB

~~767-46099 SAd dv. br. br~~

~~767-49551 SAd dv. br. br~~

~~2+3~~

Fairy Tern

~~682~~

~~862-47381 almost comp. reg. fl. GP~~

Mes. tree M.R.

a few Grey-backs roosting on M. ph.

10 June

~~BFB nest check~~

~~49 2<sup>nd</sup> e pipped~~

~~NAF 737-92943 07 red X~~

Fairy Terns new bands

~~682~~

~~862-47378 - 10 nobp~~

~~behind lab~~

~~47431-32 nobp~~

6 GP (clear on M. P)

1 " " SAF

4 RT on various beaches



SWB

GK

10 June 87  
new bands 767-4958-98

band #	Age / sex	circ #	
1 dead	Ad ♀	1	785
2 58791315	S. wh. + belly	2	
3 87	S ♀	3	
4 88	Ad ♀	4	
5 dead	S. wh. breast/land	5	
6 dead	Ad ♀	6	
7 757-36527	"	7	FFS 67
8 dead	S ♀	8	
9 737-45459	Ad ♂	9	
10 89	S. wh. wh. belly	10	
757-28005	S. " <sup>breast</sup> <sup>upper throat</sup>	11	Lisianski 66
90	S. "	12	
91	S. wh. w. belly	13	
92	Ad. ♂	14	
93	Ad ♂	16	800
94	Ad ♀	17	
757-36475	S. wh. w. belly <sup>breast</sup>	18	FFS 67
dead	A ♀	19	
95	S. wh. + belly	20	

SWB

RFB

10 June

new bands ~~747-50784~~  
new birds

band #	Age / sex	circ #	
767 50727	S. wh. br	15	799
2			
3			
4			
5			
6			
7			
8			
9			
10			

~~GK cond.~~

96	S. ♀	21	
97	Ad ♀	22	
98	S ♀	23	784



10 June

# Black Noddies autopsied

for gonad cond -

all had heavy fat

1. ♀ granular (white) 3 slightly <sup>ova</sup> yellow

no recently ruptured follicle -

oviduct appears to have been used

2 ♂ testes ~ 2 mm. dark fleshy colored

3 ♂ " " yellow/flesh colored

4 ♂ " ~ 1.5 black

5 ♂ " " "

6 ♂ " ~ 2 mm yellow/flesh colored

7 ♀ ovary granular (white) no ruptured follicle

evident, oviduct enlarged & convoluted

but regressing, <sup>moderate</sup> heavy fat, heavy

body molt

~~Can return~~

813-75776

SWB

10 June

GF cont

new bands 767-52195-92

95 S ♂

94 SI (Westland)

93 SI "

92 SI "



11 June

BFB nest check

~~55 only 1st egg present~~

~~49 2nd egg hatch~~

~~50 1st "~~

Sunset Roost Count Central Roost  
Cent. Ro.

RFB SAd + I 48 others 231

~~flying 14~~

GF SAd + I 39 others 120

~~flying 4~~

~~West. Ro.~~

RFB SAd + I 35 others 162

~~flying 8~~

GF SAd + I 98 others 93

~~flying 6~~

sky 10% cloudy  
wind at 3-5k ss. 1954

11 June  
RFB

new bands 747-50785-800

band #	age/sex	status
<del>84</del>	Ad	R
737-91680	"	N
737-99581	"	"
767-45592	"	R
<del>85</del>	S. w.b	R
<del>86</del>	S b	"
<del>87</del>	S w.b	"
<del>88</del>	A	N
<del>89</del>	"	"
767-51362	"	R
<del>90</del>	S b.	R
767-51380 rot.	A	N
767-54816	S wh. br.	R
<del>91</del>	S br. br + w.b.	R
767-49145 Midway	A.	N
<del>92</del>	"	"
93	S b	R
737-92473	A	"
767-45850	A	N
767-45237	"	"
767-51330	"	"
94	S. br.	R
95	A.	"
767-45848	"	N
767-45574	"	R
767-46939	"	N
767-46930	"	"
96	"	R
767-45209 rot.	A	N
767-51755	S br	R
97	S wh.	"
767-51465	S br	"
767-45856 rot.	A	N
767-45599	"	"
737-91983	"	"

6th st.



CF

11 June

767-49586

newbands 767-52062-

band #	age/sex	status
86	S ♂	R
737-92484	A ♀	N
91	"	"
767-45159	"	"
90	A ♂	"
89	A ♂	N (still some wht on breast)
88	A ♀	"
87	S ♂	R
86	<del>A ♂</del> S black belly	R wht. head & breast
85	A ♂	"
84	S wht underparts	S
83	A ♂	R
82	"	"
81	"	"
757-36110 FFS	S wh. underparts	"
737-26708 P&H	A ♂	"
80	S wh. underparts	"
79	S "	"
767-44417 M. Lihou	S wht. belly, dk breast	R rufous head
78	A ♀	R
77	S wht belly, dk breast	R

11 June

~~CIS newband 705-00823 on egg BFT~~

RFB

78	S ph br	R
737-91565	A	N
99	A	R
60	S wh.	R



12 June  
Sharebirds count

Hdg. — RT 6 GP clear 1

SAF

NAF GP clear 2

RT 5

Runway GP clear 4 spt 1

NEB 3 seals

M. Pt. 2 seals

NWB RT 1 WT 1

4 seals

SWB 3 seals 1 pup

Spt. 1 seal 3 BFB SAD.

SEB RT 1 BTC 1

2 seals

reported min. of 15 seals on Sand Is.

Spt.

BFB 967-52162 SAD? prob 2 yr. old

red be red 12

12 June

BIP locals

993-03210-

10 SAF entrance

11 NAF

12-15 NAF study area

16-20 SAF

BB

✓ 737-96873 ♀ brooding

#15 chick present

✓ 37 737-92978 ♂

✓ 17 737-92443 ♂

767-51113 still pres + 11

✓ 5 767-45938 ♂ 2 chicks in 5 + 6

✓ 18 737-45234 ♀

✓ 9 767-70671 ♀ 1 chick 1e

✓ 30 737-95819 ♀ 2e



12 June  
BB NAF

- ✓ 737-92447 ♂ roosting
- ✓ 737-45210 ♀ "
- ✓ 35 737-45298 ♂ 2c
- ✓ 24 737-95817 ♂ 1c
- ✓ 36 737-95814 ♂ 1 chick 1c
- new nest 737-92434 ♂ 1c
- ✓ 767-45911 ♀ 2 ← 26? 26 1st egg just hatched
- #31 2 band

Wedge-tail egg found on top  
of ground in NAF

13 June  
new bands ~~993-03221-234~~

Sooty Terns - Sera

Sera #	band #	bp card.
	21	have NV
1	22	"
2	773-19837	"
3	23	"
4	793-23266	"
5	943-88018	"
6	813-91744	"
7	24	"
8	25	"
9	26	"
10	863-07122	"
11	943-87095	"
12	27	reg. bp
13	28	have NV
14	29	"
15	30	"
16	793-23560	"
17	31	"
18	793-22072	reg.
19	793-95759	have NV
20	32	"
21	903-07975	"
22	793-22989	"
23	33	"
24	34	reg.
25	Wedge-tail w/ broken wing	

interchange  
the 22 601  
896 8's



13 June

BFB inst check

51 1<sup>st</sup> e. pipped

~~6/6, 6/30, 2~~

new bands used on chicks

568-70834-55

1 34  
2 35  
4 36  
6 37  
9 38  
11 39  
12 40  
13 41  
14 42  
16 43  
17 44  
18 45  
19 46  
21 47  
22 48  
23 49  
24 50  
25 51  
26 52  
27 53  
29 54

~~BIP seen tonight  
#23, 24 in SA~~

NAF  
BIP local 993-09235-37  
37 in SA

13 June

WTS new bands 705-00824-900

SAF 24-58

705-10895 635-16892  
~~12356~~  
10930

no bp

NAF 59-900

90 dy. bp

705-12370 635-16951  
~~10957~~  
~~00792~~  
12272

all light phase

only bird autopsied was ♀  
this bird displayed the "jet" head

---



14 June

BFB nest check

~~51 1st e. hatch~~

~~red x present~~

BIP nest check

23 empty  
15 still present

14 "  
8 "

39 empty

32 "

33 "

36 "

38 "

4 "

14 June

Sooty Terns on eggs or brooding chicks

newband 993-03501-700

612 brooding 2 chicks

657 "

698 "

Total of 4 double clutches

CIS newband 705-01000

road to trans bldg.



14 June  
Sooty's on egg or w/ chicks

813	913	903	903
<del>91278</del>	<del>31263</del>	<del>06527</del>	<del>07421</del>
<del>91468</del>	<del>43873</del>	<del>08118</del>	<del>08115</del>
<del>91350</del>	<del>88488</del>	<del>06183</del>	<del>08828</del>
<del>91899</del>	<del>99899</del>	<del>05124</del>	<del>07349</del>
<del>91175</del>	<del>61795</del>	<del>06179</del>	<del>08574</del>
<del>91384</del>	<del>67336</del>	<del>06184</del>	<del>07030</del>
	<del>55369</del>	<del>04873</del>	<del>08442</del>
	<del>48486</del>	<del>06109</del>	<del>09949</del>
	<del>70036</del>	<del>06273</del>	<del>07486</del>
	<del>89946</del>	<del>05127</del>	<del>08257</del>
	<del>95622</del>	<del>04305</del>	<del>07141</del>
	<del>45302</del>	<del>05451</del>	<del>07556</del>
		<del>06366</del>	<del>08451</del>
		<del>06671</del>	<del>07067</del>
		<del>04847</del>	<del>08337</del>

863 Midway  
04336

713 non PoBSP  
00863

713  
19021  
19671  
19764

903 Midway  
00289  
02848

14 June  
Sooty's on egg or w/ chick

793	943
<del>16946</del>	<del>20078</del>
<del>16883</del>	<del>95992</del>
<del>16890</del>	<del>21398</del>
<del>17418</del>	<del>95105</del>
<del>15523</del>	<del>23690</del>
<del>16348</del>	<del>96796</del>
<del>14865</del>	<del>20019</del>
<del>17179</del>	<del>94027</del>
<del>15713</del>	<del>23843</del>
<del>16945</del>	<del>23609</del>
<del>15890</del>	<del>96715</del>
<del>16405</del>	<del>21535</del>
<del>17223</del>	
<del>14881</del>	
<del>16062</del>	
<del>14631</del>	
<del>17903</del>	
<del>16845</del>	
<del>15860</del>	
<del>17145</del>	
<del>17884</del>	
<del>17044</del>	
<del>16316</del>	



15 June

~~BFB nest check~~

~~new return NAF~~

~~767-50926 ♀ red w. red 13~~

~~BIP locals~~

~~SAF 993-03238-40~~

~~NAF~~

~~41~~

~~41 in SA~~

~~BB SAF~~

~~11 737 92449 ♂~~

~~737 96889 ♂ R~~

~~737 45203 ♀ R~~

~~12 new chick~~

~~14 597-83244 ♀ red~~

~~33 737 45204 ♀~~

15 June

North Coast NEB

GF

new bands 767-52176-66

76 A ♀ R

737-26751 A ♂ R

75 S all wh. underparts

74 A ♂ N

73 A ♂ R

72 S. beginning all wh. belly

71 S. wht. belly, dk breast

70 A ♀ R

69 A ♂ "

68 S all wht. underparts

67 A ♀ R

66 S all wht. underparts



RFB 15 June

new bands 767-52801-03

01 S. betw. wht/bw. + wht  
737-90635 A. R  
737-98174 " "  
02 " "  
03 S br

~~BFA local NEB 767-52163~~

~~FT 682-47434 bare bp Scaevola  
NEB~~

~~CIS North Roost~~

~~705-00936-37 pair bare bp.~~

~~39-40 " on egg~~

~~RTTB M.R~~

~~705-00938 w/ sm. grey ns~~

16 June

~~1400 RTTB count~~

~~~190~~

~~sky 100% cloudy wind southeasterly 8-10k  
nest check new bands 705-00941-57~~

|        |            |                          |
|--------|------------|--------------------------|
| #2     | -          | e                        |
| 38     | -          | abund.                   |
| 1      | -          | e                        |
| 116    | 615-10234✓ | e                        |
| 34     | -          | abund                    |
| 48?    | 605 21022✓ | e                        |
| 123 67 | 41         | e                        |
| 42     | -          | eggs broken              |
| 122 66 | 605 12707✓ | w/ 2m. downy grey        |
| 121 65 | -          | e                        |
| -      | 42         | speckling on back of wgs |
| 8      | 43 (chick) | feath. yng               |
| -new   | 44         | e                        |
| 12     | 45         | e                        |
| -      | 46         | e                        |
| 11     | -          | e                        |
| 4      | -          | e                        |
| -new   | 635 16187  | e                        |
| -      | 47         | -                        |
| 33     | 615 10287✓ | empty                    |
| 34     | 48 (chick) | lrg. feath.              |
| 125 69 | 00910      | e                        |
| -      | 49         | -                        |
| -new   | 615 10367✓ | e                        |
| 51     | 1          | abund                    |
| 53     | -          | "                        |
| 49     | -          | e                        |
| 50     | -          | e                        |



16 June

1964  
 56 605-21054 ✓ chick 50 feather  
 57 615-09005 ✓ chick 51 "  
 635-21378  
 - new 52 e  
 - new 53 e  
 - new 605-21950 ✓ e  
 - new 635-16191 e  
 47 635-16192 e  
 58 — abund  
 57 — "

SAF 54 (chick) med feather yng.  
 Central R. 55 oe.  
 56 (chick) long feather yng

WTS egg under seaw. 5 A for RTTB

CN on egg returns  
 993-03242 713-00933 no egg  
 43 oe

BIP

SAF Local 993-03244, 45, 46  
 NAF " 47

16 June

BFB nest check  
 nothing new

231 92945 ♂

Sunset Roost/Cnd. M. R.  
 dist. of tw. sky 40% cloudy  
 wind 55-8  
 SS 1954

RFB SAd: I 6  
 others 111

GF flying 9  
 SAd 3  
 others 33

flying 3  
 Other areas

RFB SAd 10  
 others 145

flying 8  
 GF SAd 84  
 others 239

flying 13



16 June  
 LA roosting newbands none

697  
 90792 85  
 22641 80

90

95  
 500  
 286  
 347

97  
 383

91  
 421 85  
 646 85

98

92  
 314 85

667  
 39360  
 39379

99

93

597  
 45144 85

94  
 607  
 216

96

45963  
 47466

14974  
 10175

16 June

100% of birds present caught

44  
 969

46  
 272

48

51  
 848  
 972  
 181 85

52

47

49  
 424

45

50

moon begins 1<sup>st</sup> quarter  
 mostly sky clear wind southerly 6-8 kts



16 June

RFB new bands 767-52804/- 820

|             |       |          |                |
|-------------|-------|----------|----------------|
| ✓ 767-45581 | A.    | R        |                |
| ✓ 737-99707 | "     | "        |                |
| 04          | S br. | "        |                |
| ✓ 737-91593 | A     | N        |                |
| ✓ 767-51319 | A     | "        |                |
| 05          | Nes.  |          |                |
| 06          | "     |          |                |
| ✓ 737-45419 | A     | R        |                |
| 07          | "     | N        |                |
| 08          | Nes   |          |                |
| 09          | A     | N        |                |
| 10          | Nes   |          |                |
| ✓ 767-45834 | A     | N        |                |
| 737-43753   | "     | "        | Sand- Johnston |
| 11          | Nes.  |          |                |
| 12          | A     | N        | Non POBS?      |
| 697 70904   | A     |          |                |
| 13          | Nes.  |          |                |
| 14          | A     | R        |                |
| ✓ 767 45510 | "     | N        |                |
| ✓ 767 45246 | "     | "        |                |
| 15          | Nes   |          |                |
| 16          | Nes.  |          |                |
| 17          | "     |          |                |
| 18          | "     |          |                |
| 19          | S br  | R        |                |
| 20          | A     | R (NW B) |                |

GF

|          |           |      |   |      |
|----------|-----------|------|---|------|
| new band | 767-52165 | S. ♂ | R | C. R |
|          | 737 96909 | A ♀  | " | NWB  |
|          | 767 45708 | A ♂  | " | "    |

16 June

LA nest. 52318 has droopy wing

CIS EERW bare bp

~~705-00957 NR~~ ~~76735 no bp~~ <sup>new</sup>  
~~76705~~ <sup>sp.</sup>  
~~76741~~ <sup>sp.</sup>

can't find h. back egg EERW

BB

~~#1 737 95803 ♀ Te.~~  
~~737 45296 ♂ R sp.~~



✓ 17 June

~~RTTB 705-00958-60~~

~~58 along rd. to pier oe~~

~~59 SWB oe 60 SWB oe~~

~~BIP locals 993-03246-49-50 SAF~~

Sooty Terns on eggs or brooding chicks

new bands 993-03701-800

Returns

~~813~~

~~773~~

~~19699~~ 4

~~793~~

~~23525~~ 5

~~24870~~ 5

~~22396~~ 5

~~94082~~ 4

~~95701~~ 1

~~23575~~ 5

~~933~~

~~87452~~

Johnston

~~563~~

~~913~~

~~62272~~

~~82577~~

~~42829~~

~~79816~~

~~95451~~

~~30163~~

~~843~~

~~85508~~

Johnston

~~943~~

~~87485~~

~~059~~

✓ 17 June  
Sooty returns

903

~~903~~

~~08565~~

903

~~17123~~

~~804~~

~~04329~~

~~09310~~

~~634~~

~~11280~~

~~13479~~

~~14328~~

~~543~~

~~974~~

~~15903~~

~~834~~

~~18783~~

~~979~~

~~05671~~

~~578~~

~~089~~

~~717~~

~~067~~

~~16567~~

~~995~~

~~07466~~

2 possible double  
clutches



17 June

GF new bands

767-52879-899

767-52164

64 S I

99 S II

98 S II

97 S III

96 S II

95 A ♂ R

94 " " "

93 S ♂

92 S ♂

91 A ♂

90 " "

89 A ♀

88 S I

87 A ♀ R

86 " "

85 S II

737-26759 A ♀ R

84 S III

83 S I

82 S II

81 A ♀ R

80 " "

767-50512 A ♂ R

79 unaccounted for

BB central-roost

767-51101 S Ad.

17 June

RFB

new bands

767-52821-52

✓737-99761

A. R

✓737-99589

A R w N?

21

S br.

✓767-45541

A N

22

"

✓737-91972

" "

nodata

757-37982

S br

48

S wlt/w

23

"

✓767-46945

A N

24

"

49

nest.

25

"

50

"

26

S wlt

✓737-45438

A N

✓737-99760

27

S bed wlt/w & wlt

51

28

A R

52 nest.

29

" N

✓767-45586

" "

30

S br

31

A R

32

nest.

✓767-51660

A N

33

nest.

34

A N

35

" "

36

nest.

37

S br

✓737-98389

A N

38

" R

39

" N

✓767-51336

" "

✓767-45577

" "

40

nest.

41

A R

non Pobs

✓697-70944

nest.

A R w N?

42

"

Milway

767-49233

nest.

A R

44

A N

45

nest.

46

"

47

"



18 June

~~RTTB 705-00961 SWB oe~~

BFB S. Ad. on NEB  
unbanded

~~SAF BB egg meas.~~

~~33 63.5 x 42.6 2<sup>nd</sup> egg~~  
~~32 2 eggs~~  
~~14 1 chick 1e~~  
~~13 1 "~~  
~~12 1 " 1e~~  
~~7 1 "~~  
~~10 2 eggs~~  
~~11 1 egg~~

~~NAP~~

~~9 1 chick, 1 egg 25 1 chick~~  
~~30 58.2 x 42.6 26 65.0 x 43.0~~  
~~1 1 chick~~  
~~29 64.9 x 42.7, 67.4 x 44.1 (pipped), 69.5 x 45.0~~  
~~28 59.9 x 42.2 62.5 x 44.2~~  
~~38 1<sup>st</sup> 67.9 x 44.7, 2<sup>nd</sup> 67.7 x 43.8 (new nest) 06-12~~  
~~35 63.6 x 43.2, 60.6 x 42.0~~  
~~27 1 chick 24 1 chick 2 or 3 days~~

18 June

BB

~~33 737 45233 ♀ 2e 16 737 45296 ♂ 2e~~  
~~38 ♀ blue S~~  
~~23 767 51114 ♀~~

~~4 1 chick~~  
~~2 2 eggs 737 95814 ♂~~  
~~36 1 chick 36~~  
~~23 67.5 x 40.8~~  
~~22 63.4 x 41.5, 67.1 x 42.2~~  
~~21 61.5 x 42.4 19 2 eggs~~  
~~3 1 chick 6 2 chicks~~  
~~20 2 eggs 17 2 eggs~~  
~~18 alone 5 2<sup>nd</sup> chick regullated st. / lat. or~~  
~~37 2 eggs~~  
~~15 1 chick~~

~~BFB nest survey~~

~~767-52900 S. Ad. yellow S~~  
~~767-31040 " 40 blue~~

~~37 63.3 x 42.3 67.6 x 44.2~~  
~~34 1<sup>st</sup> 64.0 x 42.6 2<sup>nd</sup> 64.3 x 43.9~~  
~~39 67.6 x 46.8~~



18 June

RFB new bands 767-52853-66

53 nest  
 54 A N  
 737-45380 " R  
 767-46934 " "  
 55 nest  
 56 S br.  
 767-46952 A N  
 57 nest  
 767-46911 A R  
 58 S. br.  
 Midway 59 nest  
 767-49192 A N  
 60 nest  
 61 "  
 62 S bet. br & wht/br.  
 767-45995 A N  
 737-99784 A R  
 63 nest  
 64 "  
 65 "  
 66 A R  
 767-45828 A N  
 737-98390 " R  
 737-45353 " "  
 767-50995 S wht/br

18 June

GF new bands 767-52867-878

78 A ♀ R  
 77 " ♂ "  
 76 " " R?  
 75 " " R  
 74 S II  
 73 A ♂ R  
 72 S II  
 71 A ♀ R  
 70 A ♂ "  
 69 S II  
 68 A ♀ R  
 767-46566 A ♀ R  
 67 A ♂ R



18 June

unbanded LA chick BFT  
w/ droopy wings

10 GP clear on RW  
4 RT in WAF

19 June

BFB

~~137-99601 ♀ A WAF~~

~~Shorebird count~~

~~Udgls~~

~~NAF~~

~~SAF~~

~~RW 9 \* GP (clear) 4 RT~~

~~NEB 1 WT 7 seals~~

~~Npt. 83 CN (10 eggs) ✓~~

~~1 G-T.~~

~~2 seals~~

~~NWB 3 seals~~

~~SWB~~

~~Spt. 37 CN (10 eggs) + 17 edge beach~~

~~2 seals~~

~~1 WT~~

~~SEB 1 seal~~



Sooty Terns

19 June

Caught from air

returns

793

903

|                          |                           |
|--------------------------|---------------------------|
| <del>9553</del> b.p. v.  | <del>11463</del> bp. reg. |
| <del>21511</del> bp bare | <del>07331</del> bp v.    |
| <del>23115</del> no bp.  | <del>08675</del> bp bare  |
|                          | <del>17954</del> "        |
|                          | <del>06930</del> bp v.    |
|                          | <del>08200</del> bare     |
|                          | <del>08274</del> "        |
|                          | <del>05714</del> " v.     |
|                          | <del>17136</del> " bare   |
|                          | <del>18154</del> "        |

743  
87235 bp bare

813

~~91979~~ bp bare  
~~786~~ "

U

19 June

new bands 993-03251-265

|               |                    |
|---------------|--------------------|
| <del>51</del> | <del>bp bare</del> |
| <del>52</del> | <del>bp reg</del>  |
| <del>53</del> | <del>bp bare</del> |
| <del>54</del> | <del>"</del>       |
| <del>55</del> | <del>"</del>       |
| <del>56</del> | <del>no bp</del>   |
| <del>57</del> | <del>bp bare</del> |
| <del>58</del> | <del>v.</del>      |
| <del>59</del> | <del>bare</del>    |
| <del>60</del> | <del>"</del>       |
| <del>61</del> | <del>"</del>       |
| <del>62</del> | <del>"</del>       |
| <del>63</del> | <del>"</del>       |
| <del>64</del> | <del>"</del>       |
| <del>65</del> | <del>"</del>       |

WTS -

new bands 705-00962-999  
94-99 SAF  
62-65 SAF 2-5 bp's bare

|                  |     |       |         |       |         |
|------------------|-----|-------|---------|-------|---------|
| 66-93            | NAF | 66-77 | no bp   | 87-89 | no bp   |
| 635 16483 / 91   |     | 78-79 | bare bp | 90    | def     |
| 635 16823 / 86   |     | 80-81 | no bp   | 91    | bare bp |
| 705-12173        |     | 82-84 | bare bp | 92-93 | no bp   |
| <del>12188</del> |     | 85    | no bp   |       |         |
|                  |     | 86    | def bp  |       |         |

fat headed bird autopsied ♀



19 June

My Back Tern

~~682-47435 no bp. caught on ground~~

<sup>new</sup>

1 egg found

one of 2 previous eggs  
has definitely hatched - chick  
escaped

BIP NAF ~~993-03266~~

local

chicks in 5A nests

Ad. ~~753-33307~~ /w 267

#'s 14 & 15

are gone

Sooty's an egg or brooding chick

~~993-03268 - 300~~

2 possible double clutches

19 June

Sooty returns on eggs or wd. chicks

~~793~~  
~~95675~~

~~913~~

903

~~87643~~

~~53808~~

~~74268~~

~~08947~~

~~09714~~

~~17713~~

813

~~18558~~



20 June  
Kure

Fairy Tern egg in  
CR has not hatched

1 unbanded LA chick  
in CR

20 June  
Midway  
Sand Island

~~LA albatrosses 937-87001-200~~  
locals

FT 682-47436-39

36 nest.  
37 "  
38 Ad.  
39 nest.



21 June  
Eastern Is. Midway

LA chicks

new bands 737-87201 - 300

87401 - 500

501 - 600

BFA chicks 737-87301 - 400

3 unbanded BFB's fly + landing  
on eastern end of island.

21 June  
Eastern - Midway

BFB

757-92199 ♀

757-83503 ♂

chick 568-70855

757-83501 ♀

667-35033 ♂

chick 568-70856

another nest w/ 2 eggs

(2 Grey-backed Terns)

508-51753 ♀

chick 568-70857

737-45113 ♀ chick too small  
to band  
banded on Kure  
Oct 63



21 June  
Sand Midway

1 Grey-backed Tern in harbor  
area

11-5-50  
41 1  
40 1  
21 1  
10 1  
20 1  
20 1  
20 1  
20 1  
10 1  
21



date May Ringall

1

.17

11

.04

1

19

.12

20

.01

23

.03

24

.02

25

.05

28

.30

31

.01

---

.75



11  
7  
6  
3  
6  
11  
3  
4  
4  
3  
1  
59



11

7530-222-00

FEDERAL SUPPLY SERVICE



*Memoranda*



1969



Ron Walker

~~LA @~~

Jaysen Albertsons along



✓ 11 Apr Roosting  
LA

737 - 94303

" - 99106

" - 95388

" - 92022

" - 92591

" - 14745

" - 99051

" - 11994

" - 96554

" - 92716

" - 95925

" - 99230

" - 91107

" - 95319

" - 95299

" - 99249

" - 97007

" - 95644

" 99228

✓ Same

767 - 49951 ↓

" - 46409

" - 46336

" - 51845

" - 49815

" - 51850

" - 51903

" - 49952 \*

" - 49813

" - 49953 \*

" - 49954 \*

" - 51887

" - 47828

" - 51675

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✓  
Sonne

587 - \$1405

✓ - 91810

11 - 91656

11 - 85771

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11 - 91692

697 - 22229

11 - 90512

11 - 87705

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11 - 22125

24573

✓  
Sonne

667 - 39310

- 39303

7577



Same

887 - 07858

Same

767 - 51892

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" - 46342

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" - 48970

" - 45399



Senne

737 - 95688  
" - 15229  
" - 96134  
" - 97305  
" - 45926  
" - 98955  
" - 97144  
" - 95489  
" - 98975  
" - 97152  
" - 95487  
" - 99405  
" - 97129  
" - 95033  
" - 98089  
" - 98909  
" - 91322  
" - 98826  
" - 95197

Senne

737 - 95285  
" - 95290  
" - 97150  
" - 97135  
" - 98049  
" - 92344  
" - 93236  
" - 99438  
" - 97048  
" - 97651 green streamer  
" - 97843  
" - 94440  
" - 97171  
" - 99325  
" - 94090  
" - 47280  
" - 99439  
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Same

767 = 51678

" - 46376

" - 49965\*

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" - 46311

" - 48976

" - 46308

" - 49845

" - 46315

" - 49967\*

" - 48978

" - 46303

" - 54608

" - 48979

" - 51697

" - 49968\*

" - 49968

" - 46383

" - 40983

Same

767-



✓ Same

597-

~~597-91888~~

11 Apr. Roosting L.A. ✓

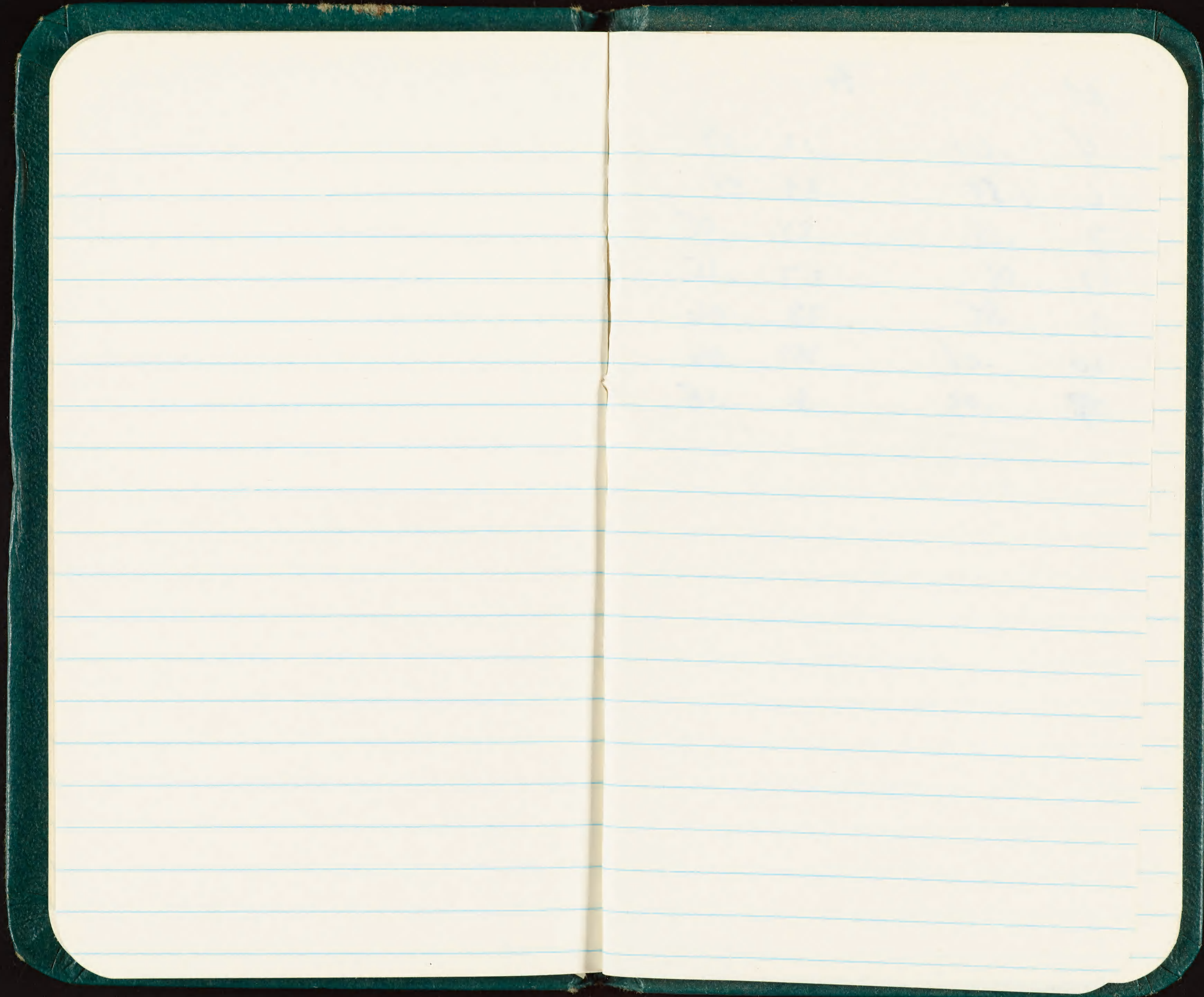
587 - 91888



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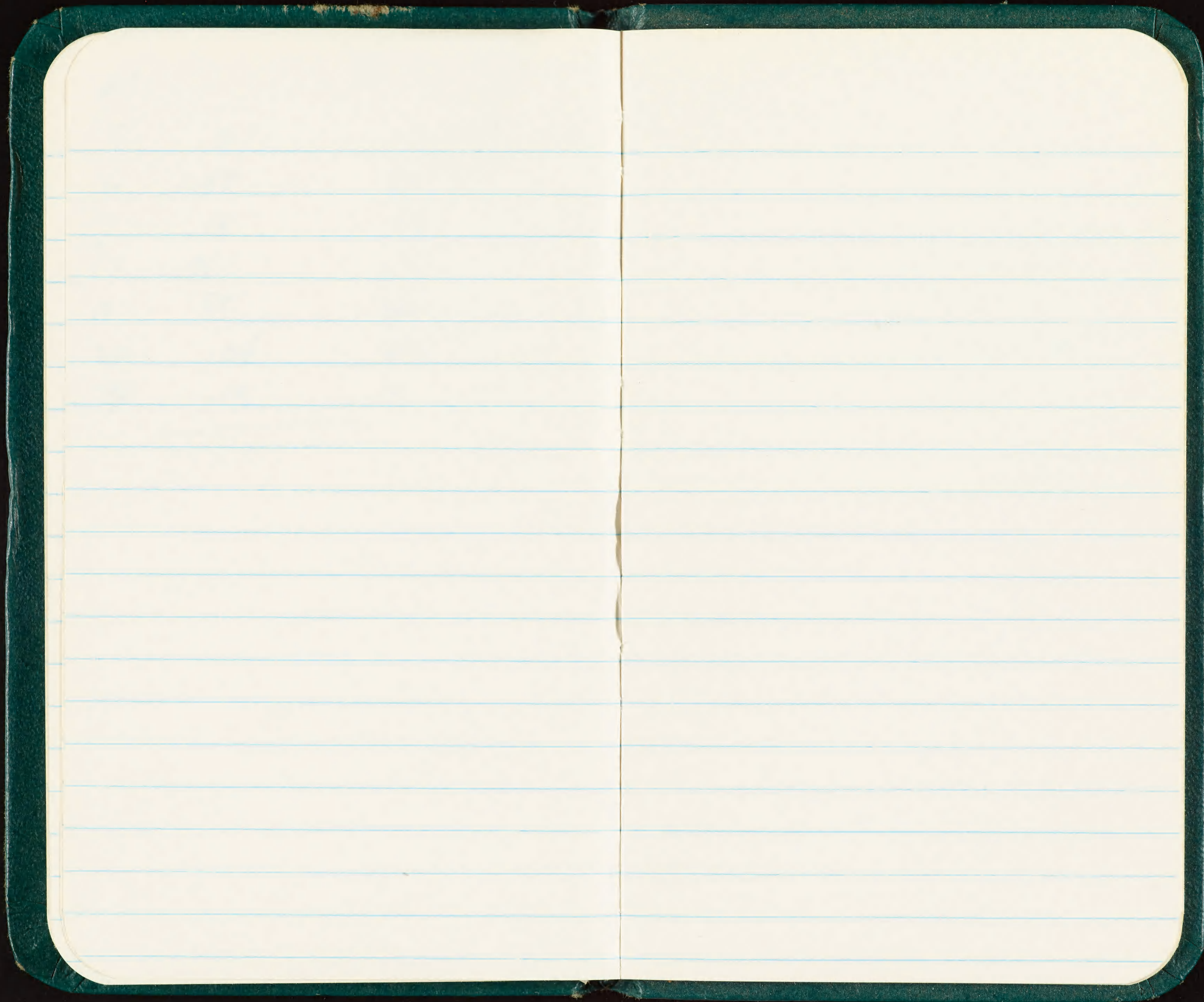
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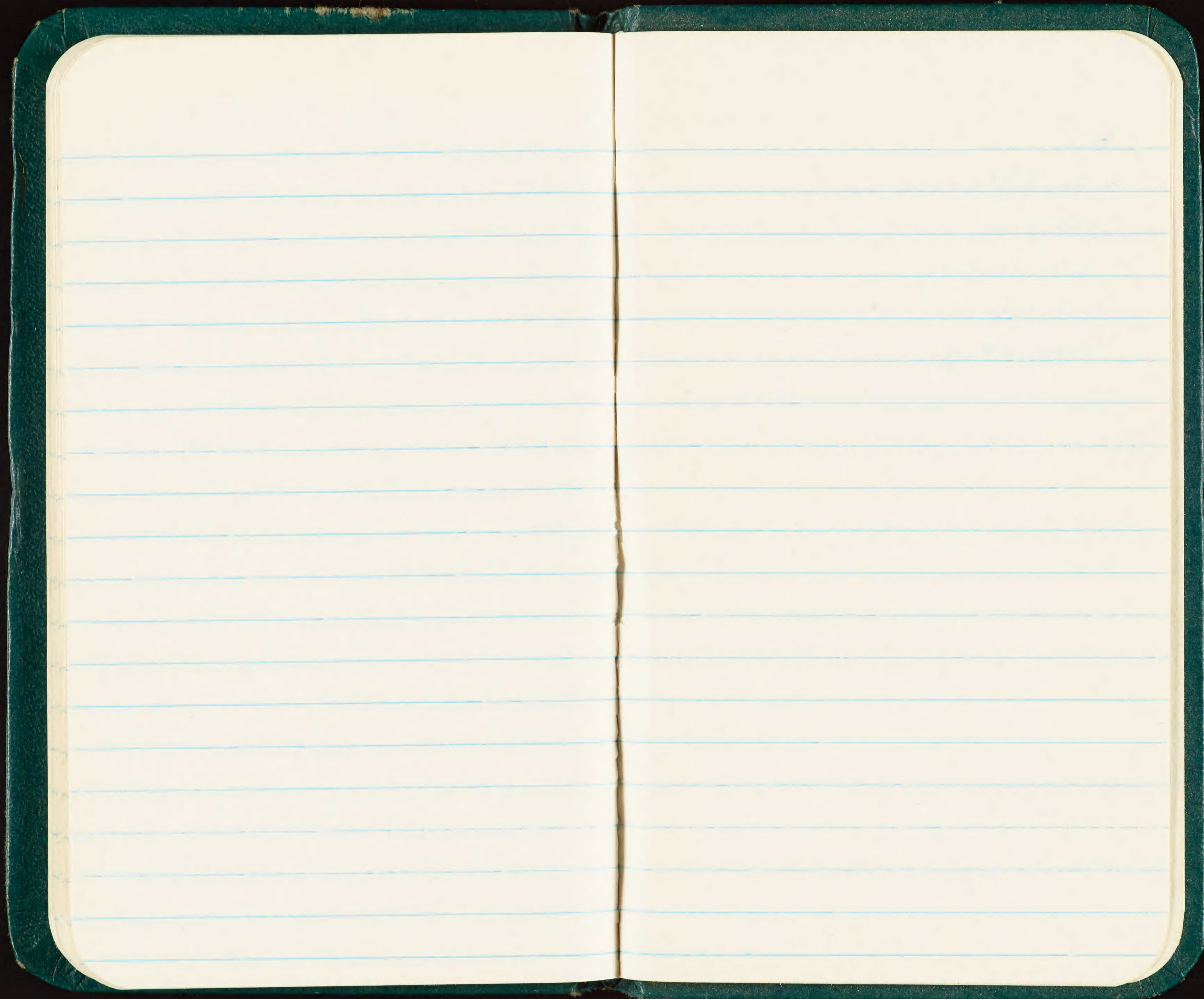
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2 9 1











bill

individual preening

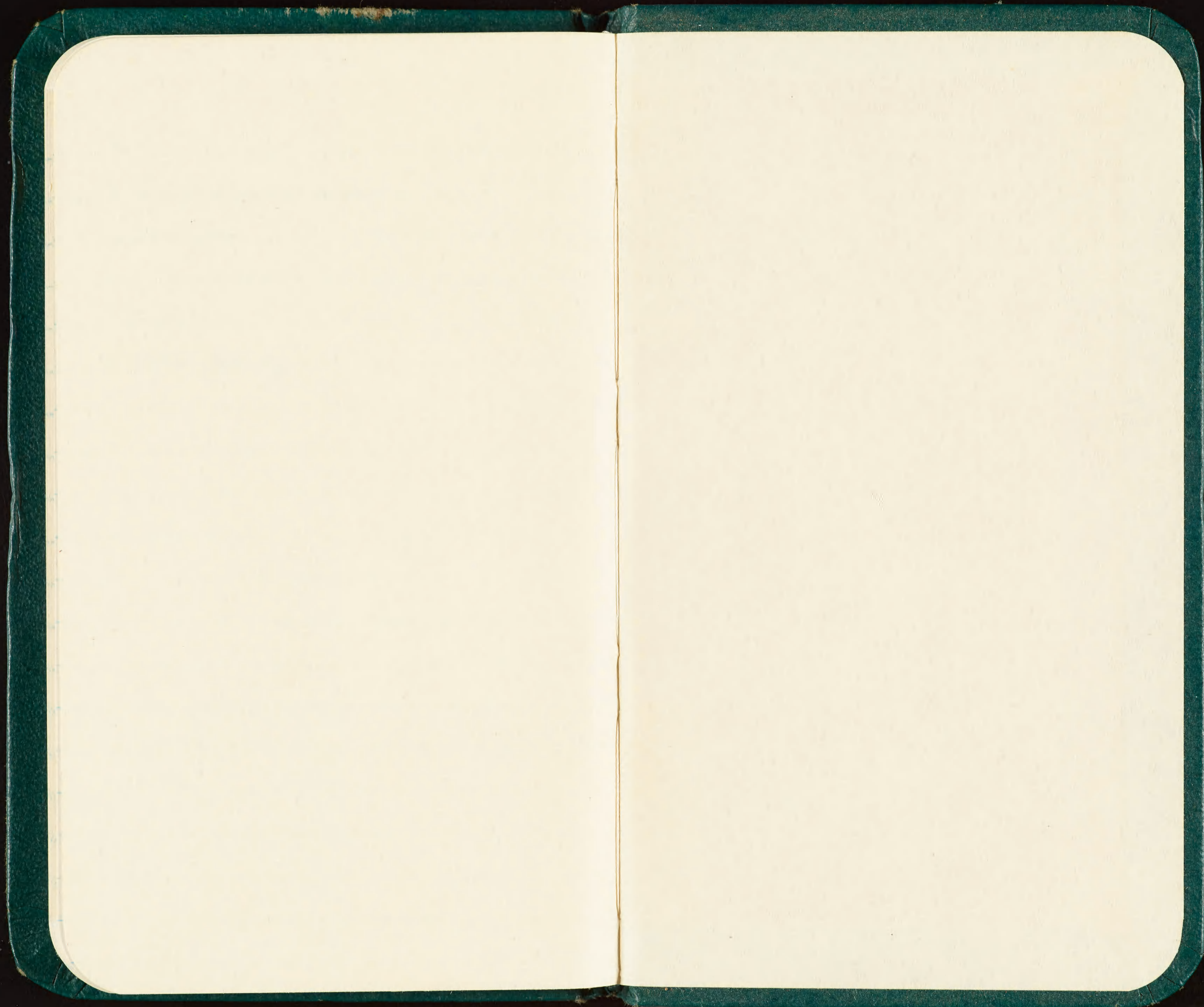
jumping

bill clacking

circling

straight up









**7530-222-0078**

**FEDERAL SUPPLY SERVICE**